

UTPA

The University of Texas-Pan American



graduate
CATALOG
2002-2004

The University of Texas-Pan American

2002 • 2004 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, telephone 404/679-4501) to award bachelor's, master's and doctoral degrees. In addition, these programs are separately accredited or approved by the:

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

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

American Chemical Society

American Dietetic Association

American Speech-Language-Hearing Association

Board of Nurse Examiners for the State of Texas

The Council on Rehabilitation Education

The Council on Social Work Education

*Engineering Accreditation Commission of the
Accreditation Board for Engineering and Technology*

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

National Association of Schools of Theatre

State Board for Educator Certification

Texas Education Agency

Accreditation Review Commission on Education for the Physician Assistant

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.

For updates to this catalog, check the online version on the World Wide Web at <http://www.panam.edu/catalog>

Individuals with disabilities wishing to acquire this publication in an alternative format should contact the Office of Admissions and Records at 956/381-2206 or Voice/TDD 956/381-2215.

2002-2004 Graduate Catalog

The University of Texas-Pan American operates subject to the Rules and Regulations of the Board of Regents of The University of Texas System.

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

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

► **Non-Discrimination Policy Statement**

The University of Texas-Pan American declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner 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.

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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 335, Administration Building, telephone 956/381-2127; 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 2002 • 2004

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

For GRE, GMAT and other test information, contact the University Testing Center at 956/316-2457 or by e-mail at potesting@panam.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.

► Fall Semester 2002

February 1, 2002, Friday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

February 28, 2002, Thursday

Recommended priority date for submission of the 2002/2003 "Free Application for Federal Student Aid" (FAFSA) for fall 2002. (Final Deadline: You may still submit the 2002/2003 FAFSA through June 30, 2003.)

March 25, 2002, (tentative)

ASSIST registration (telephone or web) begins by appointment.

August 9, 2002, Friday

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

August 26, 2002, Monday

First day of classes.

September 2, 2002, Monday

Labor Day holiday.

September 9, 2002, Monday

Deadline to file application for degree form with the Office of Admissions and Records for May 2003 graduation.

September 11, 2002, Wednesday

Twelfth University class day; official census date.

September 24, 2002, 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 21, 2002, Monday

ASSIST registration (telephone or web) begins by appointment for spring 2003.

November 20, 2002, Wednesday

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

November 28-30, 2002 inclusive

Thanksgiving holiday.

December 1, 2002, Sunday

Scholarship application deadline for academic year 2003-2004.

December 5-6, 2002 inclusive

Limited departmental final exams; dead days.

December 7-12, 2002 inclusive

Fall semester final examinations.

December 13, 2002, Friday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

December 13 and 14, 2002, (tentative)

Commencement exercises.

► Spring Semester 2003

September 6, 2002, Friday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

September 9, 2002, Monday

Deadline to file application for degree form with the Office of Admissions and Records for May 2003.

September 15, 2002, Sunday

Recommended priority date for submission of the 2002/2003 "Free Application for Federal Student Aid" (FAFSA) for spring 2003. (Final Deadline: You may still submit the 2002/2003 FAFSA through June 30, 2003.)

October 21, 2002, (tentative)

ASSIST registration (telephone or web) begins by appointment.

December 20, 2002, Friday

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

January 6, 2003, Monday

Deadline to file application for degree form with the Office of Admissions and Records for August 2003 graduation.

January 13, 2003, Monday

First day of classes.

January 20, 2003, Monday

Martin Luther King Jr. Day holiday; no classes.

January 29, 2003, Wednesday

Twelfth University class day; official census date.

February 11, 2003, 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 10-15, 2003 inclusive

Spring Break.

March 24, 2003, Monday, (tentative)

ASSIST registration (telephone or web) begins for summer I, summer II and fall 2003 by appointment.

April 7, 2003, Monday

Deadline to file application for degree form with the Office of Admissions and Records for December 2003 graduation.

April 18-19, 2003 inclusive

Easter holiday.

April 25, 2003, Friday

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

May 8-9, 2003 inclusive

Limited final exams; dead days.

May 10-15, 2003 inclusive

Spring semester final examinations.

May 16, 2003, (tentative)

Final grade reports due in the Office of Admissions and Records by 10 a.m.

May 16-17, 2003, (tentative)

Commencement exercises.

► First Summer Session 2003

January 2, 2003, Thursday

Financial Aid Summer Application available for summer 2003. This application is in addition to the 2002/2003 "Free Application for Federal Student Aid" (FAFSA).

January 6, 2003, Monday

Deadline to file application for degree form with the Office of Admissions and Records for August 2003 graduation.

February 3, 2003, Monday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

February 15, 2002, Saturday

Recommended priority date for submission of the 2002/2003 "Free Application for Federal Student Aid" (FAFSA) for summer I 2003. (Final Deadline: You may still submit the 2002/2003 FAFSA through June 30, 2003.)

March 24, 2003, (tentative)

ASSIST registration (telephone or web) begins by appointment for summer session I, summer session II and fall 2003.

May 9, 2003, Friday

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

June 2, 2003, Monday

First day of classes.

June 5, 2003, Thursday

Fourth University class day; official census date.

June 11, 2003, 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, 2003, Friday

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

July 8, 2003, Tuesday

First summer session final examinations.

July 11, 2003, Friday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

► Second Summer Session 2003

January 2, 2003, Thursday

Financial Aid Summer Application available for summer 2003. This application is in addition to the 2002/2003 "Free Application for Federal Student Aid" (FAFSA).

January 6, 2003, Monday

Deadline to file application for degree form with the Office of Admissions and Records for August 2003 graduation.

February 3, 2003, Monday

Admission application and document deadline for ASSIST registration by telephone or web. All

students applying after this deadline will register late.

February 15, 2003, Saturday

Recommended priority date for submission of the 2002/2003 "Free Application for Federal Student Aid" (FAFSA) for summer II 2003. (Final Deadline: You may still submit the 2002/2003 FAFSA through June 30, 2003.)

March 24, 2003, (tentative)

ASSIST registration (telephone or web) begins by appointment for summer session II and fall 2003.

June 20, 2003, Friday

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

July 4, 2003, Friday

Independence Day holiday.

July 10, 2003, Thursday

First day of classes.

July 15, 2003, Tuesday

Fourth University class day; official census date.

July 21, 2003, 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 4, 2003, Monday

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

August 14, 2003, Thursday

Second summer session final exams.

August 18, 2003, Monday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

► Fall Semester 2003

February 3, 2003, Monday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

February 28, 2003, Friday

Recommended priority date for submission of the 2003/2004 "Free Application for Federal Student Aid" (FAFSA) for fall 2003. (Final Deadline: You may still submit the 2003/2004 FAFSA through June 30, 2004.)

March 24, 2003, (tentative)

ASSIST registration (telephone or web) begins by appointment for fall 2003.

April 7, 2003, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for December 2003 graduation.

August 8, 2003, Friday

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

August 25, 2003, Monday

First day of classes.

September 1, 2003, Monday

Labor Day holiday.

September 8, 2003, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for May 2004 graduation.

September 10, 2003, Wednesday

Twelfth University class day; official census date.

September 23, 2003, 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, 2003, Monday, (tentative)

ASSIST registration (telephone or web) begins by appointment for spring 2004.

November 19, 2003, Wednesday

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

November 27-28, 2003 inclusive

Thanksgiving holiday.

December 1, 2003, Monday

Scholarship application deadline for academic year 2004-2005.

December 4-5, 2003 inclusive

Limited departmental final examinations; dead days.

December 6-11, 2003 inclusive

Fall semester final examinations.

December 12, 2003, (tentative)

Final grade reports due in the Office of Admissions and Records by 10 a.m.

December 13, 2003 Saturday

Commencement exercises.

► Spring Semester 2004

September 5, 2003, Friday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

September 8, 2003, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for May 2004 graduation.

September 15, 2003, Monday

Recommended priority date for submission of the 2003/2004 "Free Application for Federal Student Aid" (FAFSA) for spring 2004. (Final Deadline: You may still submit the 2003/2004 FAFSA through June 30, 2004.)

October 20, 2003, (tentative)

ASSIST registration (telephone or web) begins by appointment for spring 2004.

December 19, 2003, Friday

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

January 5, 2004, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for August 2004 graduation.

January 12, 2004, Monday

First day of classes.

January 19, 2004, Monday

Martin Luther King Jr. Day holiday; no classes.

January 28, 2004, Wednesday

Twelfth University class day; official census date.

February 10, 2004, 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 8-13, 2004 inclusive

Spring Break.

March 22, 2004, (tentative)

ASSIST registration (telephone or web) begins by appointment for summer session I, summer session II and fall 2004.

April 5, 2004, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for December 2004 graduation.

April 9-10, 2004 inclusive

Easter holiday.

April 16, 2004, Friday

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

April 29-30, 2004 inclusive

Limited departmental final examinations; dead days.

May 1-6, 2004 inclusive

Spring semester final examinations.

May 7, 2004, Friday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

May 7-8, 2004, (tentative)

Commencement exercises.

► *First Summer Session 2004*

January 2, 2004, Friday

Financial Aid Summer Application available for summer 2004. This application is in addition to the 2003/2004 "Free Application for Federal Student Aid" (FAFSA).

January 5, 2004, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for August 2004 graduation.

February 2, 2004, Friday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

February 15, 2004, Sunday

Recommended priority date for submission of the 2003/2004 "Free Application for Federal Student Aid" (FAFSA) for summer I 2004. (Final Deadline: You may still submit the 2003/2004 FAFSA through June 30, 2004.)

March 22, 2004, (tentative)

ASSIST registration (telephone or web) begins by appointment.

April 30, 2004, Friday

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

May 31, 2004, Monday

First day of classes.

June 3, 2004, Thursday

Fourth University class day; official census date.

June 9, 2004, 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 23, 2004, Wednesday

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

July 5, 2004, Monday

First summer session final examinations.

July 7, 2004, Wednesday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

► *Second Summer Session 2004*

January 2, 2004, Friday

Financial Aid Summer Application available for summer 2004. This application is in addition to the 2003/2004 "Free Application for Federal Student Aid" (FAFSA).

January 5, 2004, Monday

Deadline to file Application for Degree form with the Office of Admissions and Records for August 2004 graduation.

February 2, 2004, Monday

Admission application and document deadline for ASSIST registration by telephone or web. All students applying after this deadline will register late.

February 15, 2004, Sunday

Recommended priority date for submission of the 2003/2004 "Free Application for Federal Student Aid" (FAFSA) for summer II 2004. (Final Deadline: You may still submit the 2003/2004 FAFSA through June 30, 2004.)

March 22, 2004, (tentative)

ASSIST registration (telephone or web) begins by appointment.

June 11, 2004, Friday

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

July 8, 2004, Thursday

First day of classes.

July 13, 2004, Tuesday

Fourth University class day; official census date.

July 19, 2004, 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 2, 2004, Monday

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

August 12, 2004, Thursday

Second summer session final examinations.

August 16, 2004, Monday

Final grade reports due in the Office of Admissions and Records by 10 a.m.

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The University of Texas-Pan American **OVERVIEW**

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

► **Mission Statement**

The University of Texas-Pan American is a comprehensive general academic component of The University of Texas System established to serve the higher education needs of South Texas. The University is committed to excellence in instruction, student performance, research, scholarly accomplishment and professional service, and to expansion of international emphasis in all major areas of institutional endeavor.

The University of Texas-Pan American is committed to providing an environment of academic freedom in which faculty engage in teaching, research and service. Students learn from faculty scholars who engage in research and creative activity to promote excellence in teaching, to develop and maintain scholarship, and to extend human knowledge. The results of that research and creativity are shared with the general public through performance, presentation, publication and public service activities.

The University of Texas-Pan American strives to fulfill its responsibilities by providing a variety of quality academic programs in social and behavioral sciences, science and engineering, arts and humanities, health sciences and human services, education, and business administration leading to degrees at the undergraduate and graduate level and to certification in selected professions. These programs are grounded in the liberal arts and emphasize competency, multicultural understanding and high ethical standards.

The University of Texas-Pan American is committed to maintaining an admissions policy that recognizes the complex educational needs of its students and that provides access to qualified applicants. The University pledges itself to the fullest development of its students by seeking financial assistance, providing appropriate developmental and support services, and offering enriched programs.

In addition, the University is committed to providing appropriate and current library, information technology, computer, laboratory and physical resources to support its academic programs and to

evaluate consistently and responsibly the effectiveness of its instructional programs.

The University of Texas-Pan American seeks to complement the instructional programs of the institution by:

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

► **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 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. 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 2001 was about 13,600. The Texas Higher Education Coordinating Board predicts the University will have a fall enrollment of 15,600 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

◆ Master's Degrees

College of Arts and Humanities

- Art (MFA)
- English (MA)
- English as a Second Language (MA)
- History (MA)
- Music (MM)
- Spanish (MA)
- Speech Communication (MA)
- Theatre (MA)
- Master of Arts in Interdisciplinary Studies (MAIS)
 - Concentrations in
 - English
 - History
 - Music
 - Spanish

College of Business Administration

- Business Administration (MBA)

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)
 Supervision (MEd)

College of Health Sciences and Human Services

Adult Health Nursing (MSN)
 Communication Sciences and Disorders
 Communication Sciences and Disorders —
 Bilingual/Bicultural (MA)
 Communication Sciences and Disorders —
 General (MA)
 Family Nurse Practitioner (MSN)
 Rehabilitation Counseling (MS)
 Social Work (MSSW)

College of Science and Engineering

Biology (MS)
 Computer Science (MS)
 Engineering (MSE)
 Electrical
 Manufacturing
 Mechanical
 Mathematics
 Mathematical Science (MS)
 Mathematics Teaching (MS)

College of Social and Behavioral Sciences

Criminal Justice (MSCJ)
 Psychology
 Clinical (MA)
 Experimental (MA)
 Public Administration (MPA)
 Sociology (MS)
 Master of Arts in Interdisciplinary Studies (MAIS)
 Concentration in
 Anthropology

Interdisciplinary Master's Degrees

Master of Arts in Interdisciplinary Studies (MAIS)
 Concentrations in
 Anthropology
 English
 History
 Music
 Spanish

◆ Doctoral Degrees

College of Business Administration

Business Administration with an emphasis in
 International Business (Ph.D.)

College of Education

Educational Leadership (EdD)

College of Health Sciences and Human Services

Pharmacy (Pharm.D.) in cooperation with
 The University of Texas at Austin

◆ Bachelor's Degrees

College of Arts and Humanities

Art (BA, BFA)
 Communication
 Journalism (BA)
 Speech Communication (BA)
 Theatre (BA)
 English (BA)
 History (BA)
 Inter-American Studies
 (Latin-American Studies) (BA)
 Mexican-American Studies (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 (BS)
 Health (BS)
 Kinesiology (BS)
 Interdisciplinary Studies (Elementary)

College of Health Sciences and Human Services

Clinical Laboratory Sciences (BS)
 Communication Disorders (BA)
 Dietetics (BS)
 Nursing (BSN)

No Image Available due to file size.

Occupational Therapy (BS)
Physician Assistant Studies (BS)
Rehabilitative Services (BS)
Social Work (BSW)

College of Science and Engineering

Biology (BS)
Chemistry (BS)
Computer Science (BS)
Electrical Engineering (BSEE)
Manufacturing Engineering (BSMfgE)
Mathematics (BS)
Mechanical Engineering (BSME)
Physics (BS)

College of Social and Behavioral Sciences

Anthropology (BA)
Corrections (BSCJ)
Police Administration (BSCJ)
Political Science (BA)
Psychology (BA, BS)
Sociology (BA)

Interdisciplinary Bachelor's Degrees

Applied Arts and Sciences (BAAS)*
General Studies (BGS)*
Interdisciplinary Studies (BIS)**

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

** See the College of Education 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 Admissions and Records for information about these new opportunities.

The University of Texas System BOARD OF REGENTS & SYSTEM OFFICERS

Officers of the Board

Charles Miller, *Chairman (Houston)*
Rita Crocker Clements, *Vice Chairman (Dallas)*
A.W. "Dub" Riter Jr., *Vice Chairman (Tyler)*
Francie A. Frederick, *Counsel and Secretary*

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Terms Expire February 1, 2003
Patrick C. Oxford (*Houston*)
A.W. "Dub" Riter Jr. (*Tyler*)
A.R. (Tony) Sanchez Jr. (*Laredo*)
Terms Expire February 1, 2005
Robert Estrada (*Dallas*)
Woody L. Hunt (*El Paso*)
Charles Miller (*Houston*)
Terms Expire February 1, 2007
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THE GRADUATE SCHOOL

The Graduate School provides centralized coordination of and administrative leadership for all graduate programs of The University of Texas-Pan American.

The responsibilities of the Graduate School are to approve thesis and dissertation formats as prescribed at the program level; publish theses and dissertations; review policies related to graduate education; oversee application of current and subsequent graduate policy; assure establishment of graduate assistantship guidelines; develop and review the Graduate Catalog; 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; assure implementation of graduate policy; assist in the development of graduate proposals; serve as a consultant for changes in graduate programs; work with the Graduate Council and function as a liaison between the Council and the Provost and Vice President for Academic Affairs; promote faculty research and creative activities, grants and contracts, and fellowships; and supervise the Office of Sponsored Research.

ADMISSION

► General Information

The University of Texas-Pan American is an equal opportunity educational institution. Under this philosophy, students are admitted to the University without regard to race, creed, color, sex, ethnic origin, religion, age, veteran status or disability.

Admission is only for the semester requested. Students who apply but do not attend must submit an updated application for admission to enroll for a later semester. Students not enrolled for the previous regular semester must also apply for readmission.

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

Request documents to be sent to:

Office of Graduate Studies

Administration Building, Room 116
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78541-2999
Telephone: 956/381-3661 or 956/381-2207
Voice/Telecommunications
Device for the Deaf:
956/381-2215

Required college transcripts must be requested from each individual institution attended. These official transcripts must be sent by the institution directly to the Graduate School at the above address. Information regarding how test scores may be requested may be obtained from the Testing Center, UTPA Annex Building, 2412 S. Closner, telephone 956/316-2457.

Failure to submit a complete and correct application, including all transcripts, is grounds for rejection of application, withdrawal of offer of acceptance or, after enrollment, disciplinary action including expulsion. Any applicant, whether a new student or a former student at the University, who has attended another collegiate institution is not at liberty to disregard any part of the collegiate record and apply

for admission to UT Pan American on the basis of a partial record of his or her college work, but is subject without exception to the regulations for admission.

All documents submitted become the property of UT Pan American. Admission documents submitted will remain on file for one year if the student does not attend or five years if the student attends UT Pan American. Documents will not be returned.

◆ Automated Student Information Services

Telephone Voice Response: Students may check the progress of their applications or access other information by calling the Advanced Service for Student Information Supported by Technology (ASSIST) at 956/381-3040 on a touch-tone phone. ASSIST offers recorded information on admission, grades, registration and transcripts and information specific to each student through a series of voice prompts.

Kiosk Stations: Standard forms, general information, the campus directory and student record information, including application status, can be accessed from any of the kiosk stations located on the UT Pan American campus.

Web for Students: The services available by kiosk and telephone voice response are also available via the World Wide Web at www.panam.edu/assist or Campus Pipeline at cp.panam.edu See page 50 for specific instructions.

◆ Application Deadlines

There are two admission application deadlines for each semester and summer session at the University. The earliest deadline, usually the first work day in February for both summer sessions and the fall semester or the first work day in September for the spring semester, allows students to participate in telephone/Campus Pipeline/Web registration via the computerized ASSIST registration system. Registration is conducted in the spring for the summer and fall sessions and in fall for the spring semester.

The second application deadline, usually about 30 days before the beginning of the semester, is for late registration.

Specific deadline dates for each semester are listed in the Schedule of Classes and in the University Calendar beginning on page 4 of this catalog. Generally, the deadline for late registration is prior to Aug. 1 for the fall semester, prior to Nov. 1 for the spring semester, prior to May 1 for the first summer session and prior to June 1 for the second summer session.

◆ Application Process

Students must apply for admission for graduate study at UT Pan American and for admission to the major department. Graduate admission to UT Pan American does not ensure acceptance to a master's or doctoral program.

This section details admission for graduate study at the University only. Each department sets the departmental admission requirements for its graduate majors with the recommendation of the Graduate Council. Consult the catalog section referring to the appropriate major department for these requirements.

Normally, all undergraduate level work must be satisfactorily completed prior to taking graduate courses or at least be completed during the first semester of enrollment in graduate courses.

Any student who would like to enroll in a graduate-level course (5000-7000 level) must apply and be accepted for graduate study at UT Pan American. The 8000- and 9000-level courses are open only to students accepted into a doctoral program. Students accepted for graduate study are still eligible to enroll in undergraduate courses.

Admission criteria for doctoral programs defined by the colleges or departments that operate the programs are in addition to the requirements for admission for graduate study. Graduate admission to UT Pan American does not ensure acceptance to a doctoral program.

Admission procedures and criteria specific to doctoral programs are described on page 89 for the Ph.D. in Business Administration with an emphasis in International Business, page 114 for the Ed.D. in Educational Leadership and page 118 for the Pharm.D. in Pharmacy in cooperation with The University of Texas at Austin.

Undergraduate students may enroll in graduate courses during their last semester of study if they meet specific requirements. These requirements are outlined on page 20 (Reservation of Work by Undergraduates for Graduate Credit) and in the Undergraduate Catalog. Graduate credit may not be used to complete graduation requirements at the undergraduate level.

Students seeking admission for graduate study must have the following documents submitted to the Graduate School:

1. Graduate Student Application for Admission.
2. Official College Transcript(s) of all prior graduate and undergraduate work sent directly from each institution attended. Students must hold a bachelor's degree (or higher) from an accredited college or

university. Only coursework from an accredited institution of higher education shall be accepted for evaluation and grade point calculation for admission to a graduate program at UT Pan American. (Calculation of the Graduate Admission GPA is described below.)

UT Pan American will not award credit or recognize degrees from institutions that do not follow a traditional educational structure, i.e., the institution does not require in-residence coursework, does not have teaching faculty, a traditional campus or support facilities and/or does not have a limit on non-traditional courses accepted for credit through exams, life experience, military service, etc. Any course credit and degrees earned through distance learning will be evaluated based on the above criteria.

3. In addition to the requirements above, doctoral candidates must hold a master's degree from an accredited institution and meet all departmental requirements. Graduate students who have completed 30 or more hours of master's level courses may enroll in doctoral courses concurrently while completing a master's degree, upon approval of the major department.

NOTE: International students must also complete requirements listed under International Student Admission in the next column.

Each graduate program may have different additional admission requirements. Check the relevant section of this catalog or contact the appropriate department for information.

◆ Graduate Admission GPA

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 from a student's record. An applicant who has earned a bachelor's degree under the "Academic Fresh Start" statute, Texas Education Code, Paragraph 51.929, will be evaluated on only the 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 courses which have been repeated, will be used in calculating the graduate admission grade point average, except that UT Pan American shall base the calculation on the last 60

semester credit hours (or equivalent) of college work, which include any previous work in a graduate or professional school.

3. A four-point scale will be used in computing the grade point average (e.g.: A=4 points per semester hour; B=3 points per semester hour; C=2 points per semester hour; 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 hundredth place) is the official cumulative grade point average for admission to graduate studies.

7. Academic work at foreign colleges, universities or preparatory schools shall be excluded from the calculation. In such cases, the grade point average and credit shall be evaluated and computed by the Office of Admissions and Records in consultation with the graduate program to which the student is applying.

◆ Transfer Admission

(not applicable to doctoral students)

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

1. A letter of approval for the enrollment from the dean of the graduate school to which the work will be transferred. The letter must be sent directly to the UT Pan American Graduate School.

2. An updated letter of approval each semester if the graduate student transfer period needed to complete the 12 hours exceeds one semester. Official transcripts are not required for transfer admission.

◆ International Student Admission

An applicant is considered an International Student if the applicant 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 60 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 undergraduate study or graduate study with Clear Admission, but must also submit the following:

1. International Student Application for Admission. This application requires official certification of sources of funds from the student.

2. Test of English as a Foreign Language (TOEFL) or other acceptable exam. Students from countries whose native language is not English will be expected to take the TOEFL. TOEFL scores must be sent directly from the Educational Testing Service. UT Pan American will not accept residual TOEFL exams taken at another institution. Students scoring below 500 on the TOEFL will be denied admission.

3. Financial Deposit, 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 required for off-campus living expenses). Any refunds for students who do not attend must also be requested in writing. Submit written requests to:

Office of Payments and Collections

Student Services Building, Room 115
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78541-2999
Telephone: 956/381-2715

Graduate students employed by UT Pan American as graduate assistants, teaching assistants or instructor assistants are exempt from this financial deposit.

4. English Translation of Educational Records. In addition to the official transcripts required for admission as a graduate or undergraduate student, an English translation must be included to allow for accurate interpretations. UTPA may return educational documents to the Educational Ministry of the student's country for assistance in the evaluation of credits.

5. Texas Academic Skills Program (TASP) Exam: Undergraduate students will be required to take the TASP (or Quick TASP) exam at least one week prior to registration. The TASP and Quick TASP exams are

offered locally. Registration for coursework will not be permitted until TASP or Quick TASP scores are on file with the Office of Admissions and Records. A minimum score is not required for admission; however, passing standards must be achieved prior to enrollment in upper-division coursework.

◆ **Procedure After Admission - Issuance of I-20**

Upon completion of the application process, successful applicants will be issued an I-20 by the 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 (visit www.panam.edu for new address) at 956/381-2922.

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 otherwise admissible. The student may be readmitted by presenting a valid foreign passport, a valid visa and either a new Form I-20 A-B or a page 4 of the Form I-20 A-B (the I-20 ID Copy) properly endorsed for re-entry if the information on the I-20 form is current.

Transfer: A non-immigrant student is permitted to transfer to a different school provided the transfer procedure is followed. To transfer to a different school, the student should first notify the school being attended of the intent to transfer, then obtain a Form I-20 A-B from the new school. Transfer will be effected

only if the student returns the Form I-20 A-B to the designated school official within 15 days of beginning attendance at the new school. The designated school official will then report the transfer to the Immigration and Naturalization Service.

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 a 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.

◆ Special Students

A student holding a bachelor's degree from an accredited institution who does not wish to enter a graduate program 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 Students seeking professional improvement are only required to have an official transcript showing the awarding of a bachelor's degree (or higher) sent from the awarding institution. Special students seeking teaching certification or a second bachelor's degree are required to have transcripts sent from all institutions attended. A request for a second degree evaluation form must be completed at the Office of Admissions and Records for students seeking additional bachelor's degrees. For more information, see the Undergraduate Catalog.

◆ Special Graduate Students

Special Graduate Students are those holding a master's degree from an accredited institution. Registration in master's courses requires the permission of the graduate program coordinator or the department chair. Registration in doctoral courses requires acceptance to a doctoral program.

◆ Admission Categories (Master's Only)*

Upon submitting the required documents for admission, an applicant is accepted or denied admission to the University for graduate study in one of the following categories.

**Admission categories for doctoral students are listed in the respective departments.*

Graduate Studies

Admission to graduate studies is a two-step process: Step One is admission to the Graduate School; Step Two is admission to a specific degree program of study.

Step One: Clear Admission to the Graduate School

An applicant is accepted for clear admission to the University for graduate study if he or she has a bachelor's degree from an accredited institution and meets one of the following criteria:

1. The applicant has a 3.0 graduate admission GPA or more on a 4.0 scale on the last 60 hours attempted.
2. The applicant meets the requirements for changing "Probationary" to "Clear."
3. Applicants who hold a master's degree from an accredited university are also eligible for clear admission.

Graduate students must maintain a GPA of 3.0 on all graduate coursework or be suspended indefinitely from graduate study.

Probationary Admission to the Graduate School

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 probationary status who earns any graduate grade 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 total earned graduate hours are 9 or more and the student's graduate GPA is 3.0 or better with no grade less than a "B," the student's admission classification will be changed to "Clear."

Step Two: Admission to Graduate Degree Program

The vast majority of graduate degree programs already follow a holistic approach to admission or have the same admission criteria as admission to the

Graduate School and do not require a standardized test score. Contact the Graduate Office or program director for clarification of program criteria.

◆ Tentative Admission*

Master's applicants to the Colleges of Arts and Humanities, Business Administration, Education, Science and Engineering, and Social and Behavioral Sciences who hold a bachelor's degree from an accredited institution may be granted tentative admission if:

1. admission is based on unofficial documents, and
2. the student has a minimum Graduate Admission GPA of at least a 2.5 (on a 4.0 scale) on the last 60 hours attempted.

Tentative admission is limited to a maximum of 6 semester hours of graduate work that must be taken within the same semester, or in two six-week summer sessions. A student who enrolls in a graduate course(s) will have completed his or her tentative semester regardless of whether the student drops or withdraws during the semester, and the student must complete graduate admission requirements before enrolling in future semesters.

At the end of one semester of "Tentative Admission," the student will be reclassified as "Clear," "Probationary" or "Denied" based on the admission requirements. The student must have completed his or her admission file (to business students) and meet the admission standards for "Clear" or "Probationary" to be granted further admission.

* *Tentative admission is not applicable to graduate students in the College of Health Sciences and Human Services.*

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

◆ Transfer of Graduate Credits to UT Pan American

A maximum of 12 semester hours of appropriate graduate work earned at other institutions, subject to the approval of the chair of the major department or director of the graduate program and certification by the Graduate School, may be transferred for degree credit. Individual departments or 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 it 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 chair of the major department or director of the graduate program, who determines whether all the conditions for transfer have been met before adding the hours to the graduate degree program. The transfer is completed when the student's Application for Degree form is approved by the dean of the college (providing that the student graduates within the approved time limit for the degree).

◆ Procedure after Admission to the University for Graduate Study

Successful applicants will receive a letter of acceptance from the Graduate School, whereupon they should contact the graduate coordinator or the chair of their major department to ensure all materials required by the program have been submitted. If the student is accepted into the program, a graduate advisor will be appointed to counsel the student on registration, degree programs and other required procedures. Students should have their schedules approved each semester by their advisors (or an approved substitute) before registering for courses.

◆ 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 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 in two six-week summer sessions, in which the student is taking the graduate courses.
3. Total enrollment must not exceed 15 hours in a regular semester, or 12 hours in two six-week summer sessions.
4. The student has a minimum graduate admission

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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 38.)

5. The application for such graduate work is submitted to the Graduate School 60 days before the session begins.

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

◆ 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.panam.edu or call the Center at 956/381-2979.

◆ UT TeleCampus Courses

Some courses listed in this catalog are offered from The University of Texas-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'll find: online classrooms, a digital library, free online tutorial services, 24/7 technical support, links to various admissions and registrar 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. With questions please 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, please 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 \$933.25 per semester in 2000-2001 for 9 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 29 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 Admissions and Records 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 undocumented student* who has graduated from a Texas high school.

- 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 Admissions and Records, Room 108 of the Student Services Building, telephone 956/381-2735 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.

* *Undocumented students must have attended a Texas high school, lived in Texas for three years, enroll in college after fall 2001 and file an affidavit intending to become a permanent resident.*

◆ 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. 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 pages 24-25 are the required tuition and fees charged each semester:

- **Tuition/Tuition Designated charges** in 2002-2003 are \$90 per semester credit hour for resident graduate students and \$308 per semester credit hour for all non-resident students and in 2003-2004, \$92 and \$308, respectively.

- **Tuition rates** for students enrolled in the MBA Online Program in both the 2002-2003 and 2003-2004 academic years are \$108 and \$110, respectively, per semester credit hour for resident graduate students and \$326 per semester credit hour for non-resident graduate students. (See chart on page 24 for undergraduate tuition.)

- **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 \$11 per semester credit hour, up to a maximum of \$131.73 per regular semester or \$65.86 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 \$6.75 per semester credit hour up to a \$101.25 maximum per regular semester and summer session 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 \$1.50 per semester credit hour is charged to enhance student access to library information via technology.
- **Medical Service Fee** of \$15 per regular semester or \$7.50 per summer session is charged to fund Student Health Services.

NOTE: The Fee Tables on pages 24-25 do not include required laboratory fees or individual instruction fees, which are listed with the individual course descriptions.

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

◆ Course Specific Fees

- **Biology Course Fee:** \$15-\$17 will be assessed on biology courses to defray costs of supplies, chemicals and costs associated with replacement of equipment.
- **Computer Science Instruction Fee:** \$3-\$9 will be assessed on Computer Science courses to defray the cost of computer hardware, maintenance, lab monitors and software upgrades.
- **Dietetics Course Fee:** \$15 will be assessed on specific Dietetic Courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- **Distance Education Fee:** \$25 per course will be assessed to students enrolled in distance learning courses offered through interactive video. Students enrolled in these courses may request fee waivers if special circumstances preclude them from using UTPA facilities, activities and/or student services on which a fee is based. Reference Distance Learning Tuition Waivers on page 34 for additional information. The exception will be those students enrolled in an Online Master Program. Students will be charged a common cost of \$580 set by UT System, and this amount includes all mandatory fees and a distance-learning fee.
- **Educational Resource and Equipment Access Fee:** \$8 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.
- **Engineering Student Fee:** \$50 per engineering/pre-engineering student per semester will be assessed to support the cost of software and other peripherals utilized in engineering courses.
- **Engineering Educational Technology Course Fee:** \$2-\$30 will be assessed to defray the cost of computer repairs, lab supplies, materials and equipment to students enrolled in specific engineering courses.
- **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.
- **Individual Instruction Fees:** For courses in art, communication and music that provide individual coaching or instruction, a fee of \$35 for a 1- or 2-hour course or \$60 for a 4-hour course may be charged. Specific music courses are assessed \$2.
- **Kinesiology Activity Course Fees:** \$6 will be assessed for all 2-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, which is paid directly to the provider of these facilities; the additional fees are subject to change at the provider's discretion.
- **Laboratory Fees:** \$3-\$30 may be assessed for each laboratory course depending upon cost of material used.
- **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.
- **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:** Undergraduates, \$3 per semester credit hour; graduates, \$15 per semester credit hour.

2002-2003 Tuition & Fee Table

Fall/Spring

Semester Credit Hours	Residents of Texas		Non-Resident Student	
	Undergrad	Grad	Undergrad	Grad
1	143.25	163.25	361.25	381.25
2	232.50	272.50	668.50	708.50
3	321.75	381.75	975.75	1,035.75
4	411.00	491.00	1,283.00	1,363.00
5	500.25	600.25	1,590.25	1,690.25
6	589.50	709.50	1,897.50	2,017.50
7	678.75	818.75	2,204.75	2,344.75
8	768.00	928.00	2,512.00	2,672.00
9	857.25	1,037.25	2,819.25	2,999.25
10	946.50	1,146.50	3,126.50	3,326.50
11	1,035.75	1,255.75	3,433.75	3,653.75
12	1,124.73	1,364.73	3,740.73	3,980.73
13	1,202.98	1,462.98	4,036.98	4,296.98
14	1,281.23	1,561.23	4,333.23	4,613.23
15	1,359.48	1,659.48	4,629.48	4,929.48
16	1,430.98	1,750.98	4,918.98	5,238.98
17	1,502.48	1,842.48	5,208.48	5,548.48
18	1,573.98	1,933.98	5,497.98	5,857.98
19	1,645.48	2,025.48	5,787.48	6,167.48
20	1,716.98	2,116.98	6,076.98	6,476.98

Each Additional Hour, add:

71.50	91.50	289.50	309.50
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Summer Sessions

1	120.75	140.75	338.75	358.75
2	210.00	250.00	646.00	686.00
3	299.25	359.25	953.25	1,013.25
4	388.50	468.50	1,260.50	1,340.50
5	477.75	577.75	1,567.75	1,667.75
6	566.86	686.86	1,874.86	1,994.86
7	645.11	785.11	2,171.11	2,311.11
8	723.36	883.36	2,467.36	2,627.36
9	801.61	981.61	2,763.61	2,943.61
10	879.86	1,079.86	3,059.86	3,259.86
11	958.11	1,178.11	3,356.11	3,576.11
12	1,036.36	1,276.36	3,652.36	3,892.36

Each Additional Hour, add:

78.25	98.25	296.25	316.25
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2003-2004 Tuition & Fee Table

Fall/Spring

Semester Credit Hours	Residents of Texas		Non-Resident Student	
	Undergrad	Grad	Undergrad	Grad
1	145.25	165.25	361.25	381.25
2	236.50	276.50	668.50	708.50
3	327.75	387.75	975.75	1,035.75
4	419.00	499.00	1,283.00	1,363.00
5	510.25	610.25	1,590.25	1,690.25
6	601.50	721.50	1,897.50	2,017.50
7	692.75	832.75	2,204.75	2,344.75
8	784.00	944.00	2,512.00	2,672.00
9	875.25	1,055.25	2,819.25	2,999.25
10	966.50	1,166.50	3,126.50	3,326.50
11	1,057.75	1,277.75	3,433.75	3,653.75
12	1,148.73	1,388.73	3,740.73	3,980.73
13	1,228.98	1,488.98	4,036.98	4,296.98
14	1,309.23	1,589.23	4,333.23	4,613.23
15	1,389.48	1,689.48	4,629.48	4,929.48
16	1,462.98	1,782.98	4,918.98	5,238.98
17	1,536.48	1,876.48	5,208.48	5,548.48
18	1,609.98	1,969.98	5,497.98	5,857.98
19	1,683.48	2,063.48	5,787.48	6,167.48
20	1,756.98	2,156.98	6,076.98	6,476.98

Each Additional Hour, add:

73.50	93.50	289.50	309.50
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Summer Sessions

1	122.75	142.75	338.75	358.75
2	214.00	254.00	646.00	686.00
3	305.25	365.25	953.25	1,013.25
4	396.50	476.50	1,260.50	1,340.50
5	487.75	587.75	1,567.75	1,667.75
6	578.86	698.86	1,874.86	1,994.86
7	659.11	799.11	2,171.11	2,311.11
8	739.36	899.36	2,467.36	2,627.36
9	819.61	999.61	2,763.61	2,943.61
10	899.86	1,099.86	3,059.86	3,259.86
11	980.11	1,200.11	3,356.11	3,576.11
12	1,060.36	1,300.36	3,652.36	3,892.36

Each Additional Hour, add:

80.25	100.25	296.25	316.25
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Tuition & Fee Disclosure

For Texas Residents — FY 2003 & FY 2004 (Fall/Spring)

Charge	Undergraduate		Graduate	Comments
	12 SCH	15 SCH	9 SCH	
<u>FY 2003</u>				
Resident Tuition**	40.00	1,050.00	810.00	\$70/SCH-UG, \$90/SCH-Grad
Non-Resident Tuition**	3,456.00	4,320.00	2,772.00	\$288/SCH-UG, \$308/SCH-Grad
Plus: Registration/Matriculation Fee	8.00	8.00	8.00	\$8 per semester
Student Services Fee	131.73	131.73	99.00	\$11/SCH, \$131.73 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
Information/Technology Fee	81.00	101.25	60.75	\$6.75/SCH, \$101.25 max
Library Technology Fee	18.00	22.50	13.50	\$1.50/SCH
Medical Service Fee	15.00	15.00	15.00	\$15.00 per semester
Student Union Fee	30.00	30.00	30.00	\$30.00 per semester
Subtotal - Required Fees	<u>284.73</u>	<u>309.48</u>	<u>227.25</u>	
Average Incidental Fees	*	*	*	
TOTAL TUITION & FEES - RESIDENT	1,124.73	1,359.48	1,037.25	
TOTAL TUITION & FEES - NON-RESIDENT	3,740.73	4,629.48	2,999.25	
<u>FY 2004</u>				
Resident Tuition**	864.00	1,080.00	828.00	\$72/SCH-UG, \$92/SCH-Grad
Non-Resident Tuition**	3,456.00	4,320.00	2,772.00	\$288/SCH-UG, \$308/SCH-Grad
Plus: Registration/Matriculation Fee	8.00	8.00	8.00	\$8 per semester
Student Services Fee	131.73	131.73	99.00	\$11/SCH, \$131.73 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
Information/Technology Fee	81.00	101.25	60.75	\$6.75/SCH, \$101.25 max
Library Technology Fee	18.00	22.50	13.50	\$1.50/SCH
Medical Service Fee	15.00	15.00	15.00	\$15.00 per semester
Student Union Fee	30.00	30.00	30.00	\$30.00 per semester
Subtotal - Required Fees	<u>284.73</u>	<u>309.48</u>	<u>227.25</u>	
Average Incidental Fees	*	*	*	
TOTAL TUITION & FEES - RESIDENT	1,148.73	1,389.48	1,055.25	
TOTAL TUITION & FEES - NON-RESIDENT	3,740.73	4,629.48	2,999.25	

* 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.panam.edu>

**Due to the signing of Senate Bill 1907, the General Use Fee has been combined with Tuition effective Sept. 1, 1997.

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.

◆ 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 7 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 6th 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 non-refundable 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 non-refundable 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 non-refundable 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.

◆ Concurrent Enrollment Fees

Fees for students registering concurrently at two Texas public institutions of higher education are called concurrent enrollment fees.

A student shall pay the full tuition charge to the

first institution at which he or she is registered.

Generally, only the hourly rate is paid at the second institution. However, if the minimum amount is less at the first institution, then the student must pay the difference in the two minimums to the second institution, but in no case shall the student pay to the institution less than the hourly rates. Tuition designated, student service fees and optional fees are billed by each institution at its regularly authorized rates.

◆ Other Fees and Deposits

• **Auditing Fees:** \$20 non-refundable 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 63.

• **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 non-refundable 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:** \$15 non-refundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See page 34 for more on Emergency Loans.)

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

• **General Property Deposit:** \$10 one-time deposit to ensure against losses, damages or breakage in laboratories and libraries.

• **Graduation Fee:** \$25 Non-refundable 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 Admissions and Records. 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 non-immigrant 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 8.

- **ID Card Replacement Fee:** \$7 non-refundable 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 Activities, University Center, Room 205, when they request a replacement ID Card.

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

- **Late Registration Fee:** \$25 non-refundable fee to defray the costs of late registration and extra services required.

- **Library Fees:** The fees are, for late book, \$0.10 per workday per book; lost book, \$20-\$86 to be determined by LC Call Number 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; public patron registration, \$25 per year; photocopy fee, \$.20 per page; interlibrary loan, actual cost; late laptop computer fee, \$5; 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 pre-registration.

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

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

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

varies based on actual costs.

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

- **Returned Check Charge:** \$15 non-refundable 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.).

- **Short-Term Loan Fees:** \$5 processing fee and a \$5 late payment fee. (For more information on short-term loans, see page 33.)

- **University Testing Services:** Fees may be charged for tests to defray the cost of administering and scoring academic tests. Accuplacer Test Fee - \$29; ACT Residual Test - \$50; Advanced Standing Examination Fee - \$20; CLEP Service Fee - \$15; Correspondence Exam - \$20; Institutional TOEFL - \$40; Miller Analogies Test - \$45; Quick TASP - \$10; Texas Commission on Law Enforcement Officers Standards and Education - \$25. Please inquire at the University Testing Center.

- **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.

- **TASP Activity Fee:** \$85 will be charged to students participating in the Learning Assistance Center's Texas Academic Skills Program (TASP). This fee supports non-course based developmental education activities.

- **TASP Affected Student Advisement Fee:** \$20 per semester will be charged to students not cleared from TASP to defray the cost of advising.

- **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 \$30 one-time fee will be charged to defray costs related to services provided to the College of Education students seeking certification in the Teacher Preparation Program upon completion of 90 hours.

- **TELESYS Account Fee:** Students are charged \$36 per year or \$17 per fall or spring semester and \$14 for both summer terms for 260 hours annually (pro-rated

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

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

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

- **Tuition Installment Incidental Charge:** See Installment Payments on page 26.

- **University Center Recreation 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.

- **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 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 Sept. 1 and ending Aug. 31 is \$16 if paid during the fall semester, \$12 if paid during the spring semester, \$8 during the first summer session and \$4 during the second summer session. There are no refunds after the 12th class day (fourth class day in the summer). Vehicle operation regulations are available at the Office of Student Activities, the University Police Department, the University Library Lobby, the Office of Payments and Collections and on the VAX (university mainframe computer) at campus info.

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.

No Image Available due to file size.

◆ Refund of Registration Fees

To officially withdraw from the University or drop a course, a student must go to the Office of Admissions and Records. A student withdrawing officially and completely during a fall or spring semester will receive a refund of total tuition and fees (excluding non-refundable 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 non-refundable 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 non-refundable \$5 course drop fee and other non-refundable 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 Admissions and Records (within 30 days if the student did not receive some form of financial assistance through the University). Refunds for a student under the installment plan will be first applied to the student's unpaid balance.

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

◆ Refund Policy

Return of Title IV funds procedures for students receiving Title IV financial aid: Federal Law requires that a percentage of the earned and unearned Title IV aid of student financial aid recipients who withdraw completely from the University be returned.

Earned Title IV aid is the percentage of aid earned that is equal to the percentage of the enrollment period completed as of the day the student withdrew. To determine the earned aid, the school will divide the total number of days of enrollment completed for which aid is awarded by the number of calendar days in that enrollment period.

Unearned aid is determined as the amount of Title IV aid not earned by the student, which is calculated by multiplying the unearned percent by the total aid received. This will equal the total amount of aid returned to Title IV programs.

If a student withdraws after completing at least 60 percent of the payment period or period of enrollment, then it is assumed the student earned 100 percent of the Title IV aid.

◆ 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. Non-resident 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 and Records for eligible programs and non-resident status.

For more information on residency classification for tuition purposes, see page 18.

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. For more information on other types of financial assistance, contact:

Student Financial Services Office

Student Services Building, Room 186
1201 W. University Drive
Edinburg, TX 78541-2999
Telephone: 956/381-2501

E-mail: finaid@panam.edu, loans@panam.edu, workstudy@panam.edu, and scholarship@panam.edu

► 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, Room 186
1201 W. University Drive
Edinburg, Texas 78541-2999
Telephone: 956/381-2501

E-mail: finaid@panam.edu, loans@panam.edu, scholarship@panam.edu, workstudy@panam.edu
On the web: <http://www.panam.edu/finaid/>

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

Financial Aid Voice Response System

956/381-3060

TDD/Telecommunication

Device for the Deaf 956/381-3654

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

E-mail Address: finaid@panam.eduWeb Page: <http://www.panam.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. to 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; and
- h. has a financial aid application and all required documentation on file by the appropriate deadline.

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 Admissions and Records.

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 form to apply for federal and state grants, loans and work-study. You can get these forms from the UT Pan American Student Financial Services Office or any high school guidance counselor.
- You must mail the Free Application for Federal Student Aid form to the Central Processor (U.S. Department of Education) or you can attend an Electronic FAFSA Processing Workshop and transmit your application electronically via computer to the Central Processor (U.S. Department of Education). To attend a workshop, you must contact the Student Financial Services Office for available dates and times. You can also apply for student aid at www.fafsa.ed.gov. Fill out and transmit the Free Application for Federal Student Aid (FAFSA). FAFSA on the web is fast, easy and more accurate than paper.
- Request a PIN at www.pin.ed.gov. This is your electronic signature for FAFSA on the web.
- Within 4-6 weeks, you will receive a Student Aid Report or, 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.

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, Room 186, 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: April 15

Spring awards: September 15

Summer awards: February 15

Important: For those who will enroll in summer classes, the Student Financial Services Office will have summer applications beginning Jan. 2 of every year. This is a separate departmental application from the "Free Application for Federal Student Aid" (FAFSA).

Eligible students filing late applications will receive any available award during the semester. It is highly recommended that the application process begin in early spring for the upcoming fall semester.

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

◆ Satisfactory Academic Progress Policy for Master's & 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.

Grade Point Average Requirement

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

Increments

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

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

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

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
1st yr-2 semesters	12	12
2nd yr-4 semesters	24	12
3rd yr-6 semesters	36	12

Maximum Time Frame (years)*

Full-time: 3 Less than full-time: 6

• Doctoral Student

Academic Progress Period	Total Cumulative Hours Earned	Incremental Hours to be Completed
1st yr-2 semesters	12	12
2nd yr-4 semesters	24	12
3rd yr-6 semesters	36	12
4th yr-8 semesters	48	12
5th yr-10 semesters	60	12

Maximum Time Frame (years)*

Full-time: 5 Less than full-time: 10

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.

◆ Enrollment Status

Enrollment status will be determined in accordance with the definition in this catalog.

Grades of "A" through "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 credit hour deficiencies.

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.

◆ Financial Aid Probation

Students who are under academic probation will be automatically on Financial Aid Probation. A student on Financial Aid Probation is eligible to receive financial aid. 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. Exhausting the maximum time frame allowed will result in financial aid suspension.

Appeals Process

Students may appeal financial aid suspension status due to unusual circumstances such as illness, death in the family, accidents or other mitigating circumstances. A written appeal must be submitted to

the Student Financial Services prior to the intended period of enrollment.

The appeal will be reviewed by the Financial Aid Committee consisting of faculty and staff. All decisions made by the committee are final.

◆ Distance Learning UT TeleCampus

An agreement exists between University of Texas 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 the 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 U.T. 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 U.T. 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 is available at the Office of

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Admissions and Records or can be obtained at the following web site:

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

For additional questions, please contact the Student Financial Services Office at 956/381-2958.

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

Applicants are considered on the basis of financial need and demonstrated academic ability. Funds are limited, and preference is given to renewal borrowers. Further information may be obtained from the Student Financial Services Office, Student Services Building, Room 186.

- **Federal Family Educational Loan Program (FFELP):** The program 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) 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 also must attend a pre-counseling session and complete the Federal Stafford Master Promissory Note, available from Student Financial Services Office. This note is valid for 10 years if the student does not change lenders.

After the student completes the student section of the application, Student Financial Services Office will complete its portion, certifying that the student is or has been accepted for enrollment during the period the application covers and recommending the amount of loan the student would need to meet his or her educational costs. 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 EFT (Electronic Funds Transfer), which is credited to the student's university account. No single disbursement may exceed one half of the loan amount.

- **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, Room 186.

- **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 \$15 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

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, request a UT Pan American Scholarship Guide available in the Student Financial Services Office or online at www.panam.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.

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 78541-2999

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 semesters 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:

Office of the Vice President for Business Affairs

1201 W. University Dr., AB 306
Edinburg, TX 78541-2999

Consideration for fee waivers will be determined prior to the 12th class day during a fall or spring semester or prior to the 4th 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:

Office of the Vice President for Business Affairs

1201 W. University Dr., AB 306
Edinburg, TX 78541-2999

Consideration for fee waivers will be determined prior to the 12th class day during a fall or spring semester or prior to the 4th class day during a summer term.

Mexican Nationals: Citizens of Mexico may apply for a Non-Resident Tuition Waiver. To be eligible, a student must be enrolled full-time, have international student documents and must apply before the required deadline dates. For information about this program, contact the international student advisor (visit www.panam.edu for address) at 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.

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, Room 186, telephone 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 CPAs 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 (financial aid file must be complete to determine need);
- Are enrolled at least half-time;
- Are accounting majors;
- Have completed at least 120 credit hours (including at least 15 hrs. of accounting);
- Are making satisfactory academic progress according to the Student Financial Services Office;
- Have at least a 2.5 GPA; and
- Are 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 (Financial aid file must be complete to determine need.)
- Register for the Selective Services or be exempt from this requirement
- Enroll in classes leading to licensure as a professional nurse
- Enroll on at least a 1/2-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:

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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 12 semester hours, but it will not exceed 12 semester hours per individual for any given semester. Funding does not cover fees.

To apply individuals must:

- Be Texas residents;
- 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.

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; 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 Veteran Administration verifying that eligibility for benefits have terminated;
- be ineligible for Federal Pell Grant or Federal SEOG; and
- 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 U.S. and Cuba. Information is available from the International Student Advisor in the Communication Arts and Sciences (CAS) Building, Room 125, 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 160. 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 224 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 3 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

NP	No Pass	attempted hours) (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 4 grade points. If the course was offered for 3 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	= 12
		9		<u>33</u>

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 grade change 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 at 956/381-3040, web (assist.panam.edu) and kiosk services. See page 49 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/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 registering the first day of classes or thereafter will be charged an additional \$25 Late Registration Fee.

Computers are available in the Academic Services Building for student 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 Admissions and

Records. (See the sections on Withdrawal from the University on page 40 and on Dropping a Course, respectively.) Students who decide not to attend and do not officially notify the Office of Admissions and Records 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 published Schedule of Classes for refund schedules.

◆ Degree Plan

In general, a student may follow the degree requirements listed in this catalog by the respective departments of the University, thus planning a schedule of courses. However, having a degree plan on file is a requirement for graduation, and a student is well advised to have the degree plan drawn up by the department chair or graduate program coordinator on the proper form as soon as possible to preclude the possibility of taking courses that will not satisfy requirements for the degree the student seeks.

Students are expected to meet with their graduate advisor and file an official degree plan during their first semester of enrollment.

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

◆ Advisement

Prior to registering, students go through academic advisement in their major department to be counseled 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 9 hours in a regular semester. A 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 during a summer session is 6 hours, with up to 9 hours permitted with the approval of the graduate advisor and 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 Associate Vice President for Academic Affairs, Graduate Programs and Research, 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 3 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 45.

◆ Registration Policies

• Dropping a Course

A student is "dropping" a course or courses if he or she remains enrolled in a minimum of 1 credit hour after all course drops have been completed. Students who drop all classes for which they are enrolled are considered to have withdrawn from the University for that semester. (For more information on withdrawal, see the section 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 Admissions and Records, (2) obtain the signature of the instructor of record on the form, and (3) return the completed form to the Office of Admissions and Records, Student Services Building, Room 108.

All course drops must be completed by the published date in the Schedule of Classes or refer to the University Calendar beginning on page 4 for drop deadlines. A student dropping a course during the first 30 calendar days of the semester (10 days in a summer session) will receive a "DR" on the permanent record for the course dropped. If a course is dropped later in the semester, the student will be given a grade of "DP" or "DF" by the instructor for the course dropped.

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of Admissions and Records. Students who decide not to attend and do not officially notify Admissions and Records 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 Admissions and Records of his or her intention not to attend.) Refer to the published Schedule of Classes for refund schedules.

◆ Withdrawal from the University

To withdraw from the University, a student must complete a formal withdrawal slip through the Office of Admissions and Records 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 Admissions and Records, Student Services Building, Room 108, 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 published Schedule of Classes for refund periods.

◆ Non-Credit Enrollment

Students have the option of enrolling in a course for non-credit, which allows the student to participate fully in the course but not to receive a grade or to count the course in fulfilling degree requirements. Enrollment for non-credit requires the same payment of tuition and fees as enrollment for credit. (Students may also audit courses for a lesser fee; this normally allows only limited participation. For more information on auditing a class, see below.)

A student who enrolls in a course for credit may change the enrollment to non-credit by completing a Non-Credit Form in the Office of Admissions and Records, Student Services Building, Room 108, 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 Admissions and Records, (2) having it approved by the instructor of the class to be audited, (3) paying the required fee at the Office of Payments and Collections, and (4) 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 graduate (master's) courses in their last semester 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 17.)

5. The application for such graduate work is submitted to the Office of Admissions and Records 60 days before the session begins.

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. This card must be validated each semester for the duration of the student's enrollment at this institution. The card remains the property of The University of Texas-Pan American.

The card must be presented for:

- any University or department-sponsored activity,
- admission to all intercollegiate athletic events,
- identification for cashing checks on campus,
- authorization to resell books to the University Bookstore or Student Book Exchange,
- checking out equipment from the Student Union Recreation Room,
- identification for receipt of transcripts at the Office of Admissions and Records,
- identification for receipt of awards from Student Financial Services,
- use of the University food service meal plans,
- use of physical education facilities during recreation hours,
- use of the Student Health Services,
- purchase of campus parking permit,
- campus library privileges,
- voting in campus elections and referenda, and

- identifying oneself to a University official when requested to do so.

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 Admissions and Records, Student Services Building, Room 108:

1. *Misspelling*: Student must present a copy of the birth certificate.
2. *New Legal Name*: Student must present a copy of the signed court order showing the authorized new legal name.
3. *Marriage*: If a student wishes to assume 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 the former name, or another name, must present a divorce decree or signed court order showing court restoration of the 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 Admissions and Records in writing immediately. The student will be held responsible for any communication from University offices sent to the address last given to the Office of Admissions and Records. 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 9 hours of credit during a regular semester or at least 4 hours of credit during a summer session.
- **Half-time graduate** — A graduate student who is enrolled for at least 6 hours of credit during a regular semester or 3 hours of graduate credit during a summer session.

Enrollment verification for lending agencies is requested at Student Financial Services, Student Services Building, Room 186. Verification of enrollment for personal use (i.e., insurance companies, employment) is requested at the Office of Admissions and Records.

◆ Transcripts

A student may secure an official transcript of his or her UT Pan American record by presenting picture identification at the Office of Admissions and Records or by requesting the transcript in writing from the Office of Admissions and Records. 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 Admissions and Records 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 Admissions and Records by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (See the Schedule of Classes 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. A student who is excused from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.
- b. A student who is excused for observance of a religious holy day may not be penalized for the absences if proper notice of the planned absence is given.
- c. A student may be penalized by the instructor if he or she fails to satisfactorily complete the assignment or examination originally scheduled for the day(s) absent within a reasonable time after the absences.

3. Procedures-

- a. The student must submit the request for approved absences for observance of a religious holy day on the notification of absence form.
- b. The request must be made no later than the 15th day after the first day of the semester.
- c. The completed notification of absence form shall be delivered by the student personally to the instructor of each class, with receipt of the notification acknowledged and dated by the instructor or certified mail, return receipt requested, addressed to the instructor of each class.
- d. The instructor will provide the student with a dated copy of the signed form.

No Image Available due to file size.

◆ 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 Administration Building, Room 335, telephone 956/381-2127.

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

For more information, see page 59.

◆ 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 Admissions and Records and the Learning Assistance Center, Student Services Building, Room 629, telephone 956/381-2280.

Students receiving V.A. educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Academic Progress and Scholastic Probation and Suspension (see pages 36 and below).

◆ Continuing Enrollment

• Academic Standards

Graduate students are expected to meet certain minimum academic standards. Students who fail to maintain these minimum standards will be placed on academic probation or academic suspension, as appropriate.

◆ 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," therefore, 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 Associate Vice President for Academic Affairs and Graduate Programs and Research. Master's students with other than clear admission are subject to criteria set forth under the sections on "Probationary" and "Tentative" admission on pages 19 and 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. 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 Arts (MA)
- Master of Arts in Interdisciplinary Studies (MAIS)
- Master of Business Administration (MBA)
- 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.

◆ Graduate Degrees and Certifications

Graduate degrees are offered in the following fields:

College of Arts and Humanities

- Art (MFA)
- English (MA)
- English as a Second Language (MA)
- History (MA)
- Music (MM)
- Spanish (MA)
- Speech Communication (MA)
- Theatre (MA)

College of Business Administration

- Business Administration (MBA)
- Business Administration with emphasis in International Business (Ph.D.)

College of Education

Bilingual Education (MEd)
 Early Childhood Education (MEd)
 Educational Administration (MEd)
 Educational Diagnostician (MEd)
 Educational Leadership (EdD)
 Elementary Education (MEd)
 Gifted Education (MEd)
 Guidance and Counseling (MEd)
 Kinesiology (Physical Education) (MS)
 Reading (MEd)
 Secondary Education (MEd)
 School Psychology (MA)
 Special Education (MEd)
 Supervision (MEd)

College of Health Sciences and Human Services

Adult Health Nursing (MSN)
 Communication Sciences and Disorders
 Bilingual/Bicultural (MA)
 Communication Sciences and Disorders -
 General (MA)
 Family Nurse Practitioner (MSN)
 Pediatric Nurse Practitioner (MSN)
 Rehabilitation Counseling (MS)
 Social Work (MSSW)
 Pharmacy (Pharm.D.)
 in cooperation with UT Austin

College of Science and Engineering

Biology (MS)
 Computer Science (MS)
 Engineering (MSE) - Electrical, Manufacturing,
 Mechanical
 Mathematics
 Mathematical Science (MS)
 Mathematics Teaching (MS)

College of Social and Behavioral Sciences

Criminal Justice (MSCJ)
 Psychology (MA)
 Clinical
 Experimental
 Public Administration (MPA)
 Sociology (MS)
 Master of Arts in Interdisciplinary Studies (MAIS)
 Concentration in Anthropology

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.*

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

◆ 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."

2. 36 hours of coursework or, with the thesis option, 24 hours of coursework plus 6 hours for the thesis will be required. Thirty-three (33) hours of coursework are required for the Master of Business Administration (MBA). Once a student registers for the thesis, he or she must continue to register each succeeding semester or summer session until the thesis is completed. Credit is counted only once and then only upon successful completion of the master's program. Registration for thesis is not counted in determining load limit for a semester or summer session. (For the MS in Rehabilitation Counseling, 48 hours are required, including 3 hours for practica and 9 hours of internship/thesis/research project; 48 hours is also 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 will be given a comprehensive written examination.

4. All degree programs will allow a student the option to include a minimum of 6 semester hours of work that is not a part of the student's major field. It is the option of each graduate program to determine if graduate courses taken outside of the 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 Office of the Associate Vice President for Academic Affairs, Graduate Programs and Research.

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

• Thesis Requirements

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

Before submitting an approved thesis and required copies (see below), the student must pay a fee at the

Office of Payments and Collections for microfilming and binding the thesis and the publication of the thesis abstract in Masters Abstracts. If a student wishes to copyright the thesis, an additional fee must be paid. The student must present a receipt for these fees at the time of submission. Two copies of a non-illustrated abstract that does not exceed 150 words in length must accompany the signed thesis.

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 Office of the Associate Vice President for Academic Affairs, Graduate Programs and Research, 30 days prior to graduation. (See the calendar beginning on page 4 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 Office of the Associate Vice President, Graduate Programs and Research, 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 Office of the Associate Vice President for Academic Affairs, Graduate Programs and Research.

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 program 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*

- 18 hours in Discipline One (concentration area)
- 9 hours in Discipline Two
- 9 hours in Discipline Three

• *Thesis Option*

The thesis option provides a similar distribution of hours, but with the thesis being completed in place of 6 hours of coursework.

Four areas — Anthropology, English, History and Music — have defined the courses required for a

concentration in their area. See pages 155, 74, 79 and 82 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 6 hours of coursework in the area of concentration must be upper-level graduate work (6000-level).
3. At least 3 hours of coursework must be taken in research methods or statistics in the area of concentration.
4. At least 12 hours must be taken outside the field of concentration. These courses must be taken from at least two additional disciplines.
5. No more than 12 hours of coursework may be taken from the College of Education. A maximum of 6 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 Associate Vice President for Academic Affairs, Graduate Programs and Research.

• 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.
 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 6 hours of credit for courses from one master's degree may count toward the credit requirements for other master's degrees. See the appropriate graduate advisor for details.

◆ Requirements for a Doctoral Degree

For specific requirements, see the catalog sections on the doctorate in Business Administration on page 89, the doctorate in Educational Leadership on page 114 and the cooperative doctorate in Pharmacy on page 118.

◆ 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 93 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

In general, a student may follow the degree requirements listed in this catalog by the respective departments of the University, thus planning a schedule of courses. However, having a degree plan on file is a requirement for graduation, and a student is well advised to have the degree plan drawn up by the department chair or graduate program coordinator on the proper form as soon as possible to preclude the possibility of taking courses that will not satisfy requirements for the degree the student seeks.

◆ Graduation Policies and Procedures

• Application for Degree

All students who intend to receive a degree from The University of Texas-Pan American must submit a completed application for degree form to the Office of Admissions and Records by the published deadlines in the University calendar. Applications received after the deadlines will be processed for the next available

graduation date. These deadlines are necessary in order for prospective graduates to be notified of any deficiencies in time to register for the appropriate coursework.

- **Graduation Fee**

A non-refundable graduation fee of \$25 is charged for undergraduate and graduate degrees. This fee is payable at the Office of Payments and Collections, Student Services Building, Room 115, at the time the candidate presents the application for graduation to the Office of Admissions and Records. This fee is used to pay for the processing of applications for graduation, music, graduation speakers, postage, diplomas and other expenses associated with graduation.

- **Transfer of Graduation Date**

Prospective graduates who have submitted their application for degree form and do not meet graduation requirements for that graduation date must "transfer" their application to a later graduation date. Students will be required to pay an additional \$10 fee each time the graduation date is transferred.

- **Filing of 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 Office of the Associate Vice President for Academic Affairs, Graduate Programs and Research, 30 days prior to graduation. The specific deadline date is listed in the academic calendar in this catalog, beginning on page 4.

- **Commencement Exercises**

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

- **Regalia (Cap and Gown)**

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

- **Correspondence**

In order to 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 Admissions and Records. Prospective graduates will not receive special consideration for lack of knowledge of graduation requirements, deficiencies or deadlines.

ACADEMIC SUPPORT SERVICES

- ◆ **University Library**

The University Library is the campus center for resources that support the 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 DRA 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 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 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: Unenrolled UT Pan American graduate students 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 on Schunior Road in the former Lamar Elementary School Building, telephone 956/381-2133; e-mail: eli@panam.edu; <http://coserve1.panam.edu/coserve.eli.html>.

◆ 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) is required to access ASSIST registration services, and is issued to students by an academic advisor each semester.

ASSIST services include the following:

Kiosk Information Stations: Currently, 10 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 Building, Physical Education II Building, Science Building, Social & Behavioral Sciences Building, Student Union, Student Services Building, and University Library.

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

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.) Courtesy telephones are available in the Office of Admissions and Records. Voice response services include:

Admissions and Records - 956/381-3040

Application Status
 Deadline Dates/How to Apply
 Requirements for Admission
 TASP 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 required)

ASSIST registration is normally available Monday-Thursday between 7 a.m.-midnight and Friday from 7 a.m.-6 p.m. Some weekends/holidays may be available.
Note: This is not a toll-free call.

STEP 1 Select one of the following options:

- Enter 1** to register or drop/add courses or list schedule
- Enter 2** for course availability
- Enter 3** for general registration information and deadlines, office hours, and applying for graduation
- Enter *7** to repeat this menu
- Enter *9** to end this call

STEP 2 Enter your 9-digit **student ID number** (your number will be repeated to you, then enter 1 if correct, or 2 if incorrect)

STEP 3 Enter your 6-digit Registration Access Code (**RAC**): provided by your advisor.

STEP 4 Select a term (following the instructions provided by the voice system)

STEP 5 Select from the following registration options:

- Enter 1 to register for courses**
 Enter the 5-digit call number of the course you would like to add (the call number will be repeated to you, then enter 1 if correct, or 2 if incorrect)
- Enter 2 to drop a course**
 As each course from your schedule is spoken:
 - Enter 1** if you do not want to drop the course listed.
 - Enter 2** to drop the course listed
 - Enter 3** to conditionally drop this course to add a new course
- Enter 3 list your current course schedule**
 - Enter *2** to return to the main menu
 - Enter *7** to repeat this menu

Enter *9 to end this call

STEP 6 Pay your tuition and fees on or before the payment deadlines.

Payment may be made with your VISA, MasterCard or Discover via ASSIST:

ASSIST Telephone Payment: 956/381-3030

ASSIST Web Payment: assist.panam.edu

KIOSK Payment at 13 locations:

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

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)

To end a call, press 9# and listen to closing messages.

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

- University Catalogs
- Class Schedules
- Admission Information
 - Apply for Admission
 - View Admission Status
- Registration (RAC 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
- Financial Aid Awards (PIN required)

STUDENT SERVICES & 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. Copies of the Student Guide are available through the Office of the Dean of Students, University Center, Room 104.

◆ Student Travel

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

A. Purpose

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

B. Authorization

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

C. Statutory Requirements

The statutory requirements in Section D of this

policy are applicable to student travel undertaken by one or more currently enrolled students to reach an activity or event that meets all of the following criteria:

1. An activity or event organized and sponsored by the University. An activity or event is considered to be organized and sponsored if it has been planned and funded by the University and approved by the dean of students or his or her designee;
2. The activity or event is located more than 25 miles from the University; and
3. (a) Travel to the activity or event is funded and undertaken using a vehicle owned, rented, or leased by the University; or (b) Attendance at the activity or event is required by a registered student organization and approved in accordance with this policy.

D. Safety and Mode of Travel

1. All Motor Vehicle Travel

(a) Seat Belts

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

(b) Alcohol and Illegal Substance Prohibited

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

(c) Passenger Capacity

The total number of passengers in any vehicle at any time it is in operation shall not exceed the manufacturer's recommended capacity or the number specified in applicable federal or state law or regulations, whichever is lower. Fifteen-passenger vans shall not be used to carry more than 9 occupants (including the driver) at any one time. Consideration should be given to decreasing the number of passengers if luggage is to be transported in the same vehicle; luggage should be stored under seats or at the rear storage area.

(d) License and Training

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

Van driving training is available at the Environmental Health and Safety Office.

(e) Proof of Insurance, Inspection, and Safety Devices

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

(f) Legal Operation of Vehicle and Driving Schedule

Operators of motor vehicles shall comply with all laws, regulations, and posted signs regarding speed and traffic control and shall not operate the vehicle for a continuous period that is longer than the maximum provided by federal or State law. A driver may not drive longer than 4 continuous hours without a scheduled rest stop. The rest stop must last a minimum of 30 minutes before that same driver may resume driving. Total driving time within a 24-hour period may not exceed 8 hours per authorized driver. There should be no driving between the hours of 11 p.m. and 6 a.m. without prior approval of the appropriate administrative official.

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

(a) Service and Maintenance

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

(b) Operators of Vehicles

All operators of vehicles owned, rented, or leased by the University shall be employees of the University and shall have a valid operator's license for the operation of the particular vehicle. All drivers of rental vehicles must be listed on the vehicle rental agreement. In addition, operators shall have a current motor vehicle record on file with the University Department of Environmental Health and Safety. Drivers must have a rating of 3 points or less as required by The University of Texas System Business Procedures Memorandum 16-03-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-03-02).

(c) Travel by Common Carrier

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

◆ Student Right to Know and Campus Security Act

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

The University of Texas-Pan American 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 on the UT Pan American campus can be accessed at the following web address: www.panam.edu/campussafety A hard copy of the UTPA Campus Safety and Security Report can be requested by contacting the Office of Student Judicial Affairs at 956/318-5375.

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

University policies and Texas law prohibit the disruption of University operations and events and regulate the use of alcoholic beverages on campus. Violators will be subject to prosecution under the law and the University's disciplinary code. University

policies related to the possession, sale and use of alcoholic beverages on campus are described in The University of Texas-Pan American Student Guide. Copies are available on request in the Office of the Dean of Students, University Center, Room 104.

Other policies that pertain to crime reporting and crime prevention, facilities access and security, authority of police and related matters are contained in the Student Guide 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)
Counseling Center	381-2529
Dean of Students	381-2260
Student Health Services	381-2511
Alcohol and Drug Abuse Program	381-2659

◆ 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 Admissions and Records and copies of the Handbook of Operating Procedures are available in the University Library and most administrative offices and on the Internet at <http://www.panam.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 appropriate University officials who require access to educational records in order to perform their legitimate educational duties;
2. to officials of other schools in which the student seeks or intends to enroll, upon request of these officials, and upon the condition that the student be

notified and receive a copy of the record if desired;

3. to federal, state or local officials or agencies authorized by law;
4. in connection with a student's application for, or receipt of, financial aid;
5. to accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose for which it was obtained;
6. to the parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954;
7. in compliance with a judicial order or subpoena, unless such subpoena specifically directs the institution not to disclose the existence of a subpoena;
8. in an emergency situation if the information is necessary to protect the health or safety of students or other persons; or
9. to an alleged victim of any crime of violence, the results of the alleged perpetrator's disciplinary proceeding may be released.

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

The University will release information in student education records to appropriate University 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 Office of 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.

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, Administration Building, Room 116
Office of Admissions and Records, Registrar, Student

Services Building, Room 108
College, Division, Department and Faculty Offices

• Student Affairs/Student Services Records

Counseling Office: Director of Counseling, Student Services Building, Room 513

Student Services: Dean of Students, University Center, Room 104

Housing Office: Director of Campus Life, Women's Residence Hall

Office of Career Placement Services: Director, Student Services Building, Room 147

• Financial Records

Business Office: Vice President for Business Affairs, Administration Building, Room 306

Student Financial Services: Director, Student Services Building, Room 186

Educational records **do not** include:

1. financial records of the student's parents or guardian;
2. confidential letters of recommendations that were placed in the educational records of a student prior to 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.

NOTE: At the time of publication of this catalog, this policy was being revised. See the Office of the Dean of Students or Provost and Vice President for Academic Affairs for the latest approved policy.

◆ 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 Office of 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 Office of 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.

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 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 78541, 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 and page 52 of this catalog. Students who believe their records are inaccurate or have been disclosed in an unauthorized manner should contact the Office of the Vice President for Business Affairs, Administration Building, Room 320, 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 for detailed information or request assistance from the Office of the Dean of Students, University Center, Room 104, 956/381-2262.

• Student Advisement for Concerns/Complaints

The Office of the Dean of Students in the 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 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, Section 6.4.1.

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 Placement Services

In a time when heavy academic emphasis is being placed on career-oriented programs, UT Pan American's Office of Career Placement 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 Placement 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 (6 hours).
- 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 Placement Services is located in the Student Services Building, Room 147; telephone: 956/381-2243, e-mail: career_place@panam.edu or web: careerservices.panam.edu

• 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. Closner, Edinburg; telephone: 956/316-2457; e-mail: testing@panam.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 is a fully accredited ambulatory health care facility staffed with physicians and mid-level providers including physician assistants and family nurse practitioners. Primary medical care, health and wellness education and support services are provided to students registered at UT Pan American.

Confidential, unlimited, free medical consultations are available on a walk-in basis during clinic hours. Referrals and appointments to outside providers are routinely made when necessary. Fee-for-service charges are assessed for ordered laboratory tests, pharmaceuticals, women's health care and certain procedures. The students must pay for services on the day they are rendered, but if extenuating circumstances prevent payment on that day, provision has been made to have charges transferred to the student's account at the Office of Payments and Collections.

Convenient pharmacy services include prescription and over-the-counter medications and patient counseling. A full-service laboratory offers same day or next day results for most tests. Immunizations, flu

vaccine, pregnancy tests, allergy injections and screening tests for tuberculosis, anemia and diabetes are also available. Confidential, anonymous HIV antibody testing is free to students, staff and faculty.

Located on the first floor of Emilia Schunior Ramirez Hall, Student Health Services is open from 8 a.m. to 4 p.m., Monday through Friday, and is open evening hours on selected days in the fall and spring semesters. Call 956/381-2511 for more information. HIV/AIDS/HBV: An HIV/AIDS/HBV education and awareness program is available for UT Pan American students, faculty and staff. Under the oversight of Student Health Services, information and programming is available on a one-to-one basis and to various campus groups. Free, confidential, anonymous HIV antibody testing with pre- and post-testing counseling from Valley AIDS Council is available at Student Health Services. The HBV (Hepatitis B) vaccine is available to all students, faculty and staff. Clients may be referred to appropriate off-campus facilities for additional counseling and treatment as warranted.

AIDS-Related Issues: Institutional policy and educational procedures are detailed in the Student Guide, available through the Office of the Dean of Students.

Student Insurance: Students are encouraged to purchase an optimal, low-cost health insurance plan that provides health and accident coverage. Information regarding policy coverage and claim procedures can be obtained at Student Health Services on the first floor of Emilia Schunior Ramirez Hall or by calling 956/381-2511.

International Students: Health insurance is required and automatically billed each semester for all international students (F-1 and J-1 visa holders) and may be required for dependents; therefore, purchase of this health insurance will be mandatory for such students. Students who can provide proof of insurance coverage comparable to the minimum coverage required may apply for an insurance waiver before the twelfth class day. The application for a waiver of medical insurance may be obtained from the International Student Advisement Office (ISAQ). Any policy must provide the following minimum coverage: \$50,000 major medical, \$10,000 medical evacuation and \$7,500 repatriation. Medical evacuation and repatriation coverage may not be waived, as most U.S. insurance companies do not include this type of insurance and foreign companies do not meet the minimum required by the UT System. Any waiver application must have copies of the personal insurance

policy (in English), must meet or exceed the minimum coverage required, and have an authorized signature from the insurance company. Waivers must be submitted every semester so that the ISAO may have proof of continuing coverage.

Contact International Student Advisement Office at 956/381-2922 for further information.

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

Measles: Proof of two doses of measles vaccine administered on or after the first birthday if born after 1957. The required two doses should be administered at least 28 days apart or have proof of immunity. Tetanus/diphtheria: Proof of one “booster” dose of t/d vaccine within 10 years.

Bacterial Meningitis: Bacterial meningitis is a potentially deadly disease that can progress extremely fast. It is an inflammation of the membranes that surround the brain and spinal cord. The bacteria that cause meningitis also can infect the bloodstream.

Vaccinations are effective against four of the five most common bacterial types that cause 70 percent of the disease in the United States. Vaccines are available in the Student Health Center and are recommended for students living in close quarters and those 25 years old or younger.

Hepatitis B virus (HBV): Proof of serologic immunity to HBV or certification of immunization with a complete series of Hepatitis B vaccine. Students will be required to present a letter or other suitable written certification.

Mumps: Proof of one dose of mumps vaccine administered on or after the first birthday or proof of immunity.

Rubella: Proof of one dose of rubella vaccine administered on or after the first birthday or proof of immunity.

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

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

Students may obtain information from Student Health Services regarding the consequences of not being current on immunization for certain diseases, the

age groups most vulnerable to these vaccine-preventable diseases and local providers of immunization services.

• Alcohol and Drug Abuse Program (ADAP)

The Alcohol and Drug Abuse Program (ADAP) 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.

ADAP is committed to all UT Pan American students by providing an environment for education, exploration and personal growth. The ADAP staff maintains a dedication to the overall wellness of each student on campus. ADAP 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, ADAP has books, videos and literature available to faculty, staff and students.

The ADAP 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. ADAP also provides group counseling through a campus recovery group. Groups are run once a week at designated times. The ADAP staff is available for referrals, consultations, group presentations and crisis intervention services.

The Alcohol and Drug Abuse Program is located in the University Center, Room 305, telephone 956/381-2659. ADAP is open from 8 a.m. to 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, copyreaders 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
Omega Delta Phi
Tau Kappa Epsilon
Phi Kappa Theta
Sigma Lambda Beta

• UTPA Honor Societies

Engineering Honor Society
Gamma Beta Phi
Lambda Alpha
Lambda Delta
Phi Theta Kappa Alumni Association
Psi Chi

• UTPA Religious Organizations

Baha'i Association
Baptist Student Association
Campus Crusade for Christ
Chi Alpha
Latter-Day Saints Student Associations
RGV Collegiate FCA
The Presbyterian Fellowship
United Methodist Campus Ministry
Young Adult Catholic Ministry

• UTPA Service Organizations

Bacchus and Gamma Peer Education Network
Circle K International
Student Government Association
University Program Board

• UTPA Sororities

Delta Zeta
Sigma Lambda Gamma
Alpha Omicron Pi
Kappa Delta Chi

• UTPA Special Interest Organizations

Asociación Cultural de Teatro Universitario en Español
Association for Public Administrators
Association of Migrant Students
Association of Persons with Disabilities
El Sexto Sol de MEChA
GLOBAL
Habitat for Humanity
International Student Association
Japanese Animation Club
Mi Español
Reach, Educate, Help, Advocate, Broadening Minds
Sol y Luna International Dance Club

The Community

• UTPA Departmental Organizations

Accounting Society
Alpha Kappa Psi
American Advertising Federation
American Marketing Association
American Sign Language Club
American Society of Mechanical Engineers
American String Teachers Association
Anthropology Club
Association for Computing Machinery
Association of Clinical Laboratory Sciences
Association of Information Technology Professionals
Bilingual Education Student Organization
Bronc Cadet Club
Bronc Pre-Pharmacy Club
Business Student Advisory Council
Elliot Chemical Society
Entrepreneurship Club
Financial Management Association
Forum on International Relations and Business Affairs
French Club
Geology Club
Graduate Association of Student Social Workers
Graphic Design Club
Health and Kinesiology Club
Health Careers Opportunities Organization
Health Occupational Students of America
History Club
Institute for Electrical and Electronic Engineers
Julian Castillo Association of Physical Assistants
Wiener Society of Mathematicians
MBA Association
Music Educators National Conference (Chapter 652)
National Student Speech Language and Hearing Association
O.P.E.R.A. Society
Philosophy Club

Political Science Association
 Pre-Dental Society
 Pre-Law Society
 Pre-Med/Bio-Med Club
 Psychology Club
 Social Work Student Organization
 Society of Hispanic Professional Engineers
 Society for Human Resource Management
 Society of Automotive Engineers
 Society of Women Engineers
 Student Council for Exceptional Children
 Student Dietetics Association
 Student Nursing Organization
 Student Occupational Therapy Association
 UT Cares

◆ Student Housing: Residence Halls

The university experience is about trials and triumphs in the classroom, as well as friendships made and new ideas explored throughout your college career. To that end, the residence life staff at UTPA invites you to join the resident community we call home.

Residence living offers you many prized benefits as a university student: the convenience of short walks to classes and campus events; leadership opportunities as a member of the Residence Hall Association, Residence Life Advisory Committee, Food Service Committee or residence life staff; a community of peers where you can build lifetime friendships, form late night study groups and interact with a diverse population; the opportunity to learn responsibility and live independently; and an atmosphere filled with the pride of being a UTPA Bronc.

For your housing accommodations, the UTPA campus is home to two residence halls and Bronc Village apartments.

Whether you hail from the Rio Grande Valley, out-of-state or out-of-country, make UTPA your home while earning your academic degree and experience true university life. A host of activities has been planned for your stay with us, and we are eager to serve your housing needs.

For specific information on the Residence Halls and Bronc Village Apartments, please refer to the sections below.

Each residence hall facility has a capacity of 192 beds and is within walking distance to all academic and service facilities at UT Pan American. Residence halls are centrally air-conditioned and heated. Each suite contains two rooms and an adjoining restroom with vanity and shower. Rooms are equipped with two beds, two desks, two bookshelves, two lockers and two dressers.

Telephone service and cable television are available in each room and public telephones are available on each floor. There are a lobby and kitchen/dining area on the first floor and a laundry room and recreation area on the third floor of each facility. In addition, a 24-hour computer lab with network extension is available for residents' use.

Staff is available to address student needs and to organize and conduct educational, recreational and social activities throughout the year.

Both facilities are within walking distance to shopping, restaurants, banks and other facilities.

Note: Residence hall opening and closing dates are subject to change. Please verify availability and opening/closing dates with the Office of Residence Life at 956/381-3439.

For reservations and other information on University residence halls and apartment housing, contact the:

Office of Residence Life

Women's Residence Hall
 The University of Texas-Pan American
 1201 West University Drive
 Edinburg, Texas 78541-2999
 Telephone: 956/381-3439
 Fax: 956/384-5055

• Residence Hall Fees

Fall/spring semester room rates are as follows (costs per semester):

Regular Double-occupancy Room:	\$1,203
Regular Single-occupancy Room:	\$1,839
South Wing Double-occupancy Room:	\$1,323
South Wing Single-occupancy Room:	\$2,018

NOTE: Fees and meal plans are subject to change. For current rates, contact the Office of Residence Life.

• Installment Plan

An "installment plan" is available to pay fall and spring semester fees. There is an installment plan fee of \$20 and a \$5.50 late charge for payments made after the due date. Neither fee is refundable. Full payment for summer sessions must be made before moving in.

Arrangements for use of the installment plan are made through the:

Office of Payments and Collections

Student Services Building, Room 115
The University of Texas-Pan American
1201 West University Drive
Edinburg, Texas 78541-2999

NO REFUND will be made after the 12th class day.

• Reservations and Room Deposits

Reservations for the residence halls are made through the Housing Office.

Requests are made on a first-come first-served basis; students may be placed on a waiting list until space is available through cancellations and "no-shows."

A reservation/damage deposit of \$55 is required. The deposit is refundable, less any property damage, lost keys and improper checkout, if cancellations are received by the following dates:

Semester	Cancellation Deadline
Fall	July 15
Spring	November 15
First Summer	May 1
Second Summer	June 1

Deposit refunds will take approximately four weeks.

School holidays and breaks are not included as part of the room and board plan and are not included in the fees.

• Cafeteria Meals

Each residence hall resident must purchase one of the following meal plans per long semester:

10 meals per week	
+ \$50 Bronc Bucks for semester:	\$786.15
14 meals per week	
+ \$75 Bronc Bucks for semester:	\$885.90
17 meals per week	
+ \$100 Bronc Bucks for semester:	\$963.58

Students who withdraw officially from the University and have made full payment may receive a refund for the remaining portion of the residence hall fee. Students who cancel the residence hall lease for any reason other than official withdrawal will be charged one-fourth of the remaining unexpired portion of the room and board fee as a penalty, in addition to the prorated daily charges accumulated.

• Telephone Payments

All arrangements and payments for local and long

distance telephone service in residence halls are made directly through the telephone company servicing the halls.

◆ Student Housing: Bronc Village

Bronc Village Apartments are owned and controlled by The University of Texas-Pan American. Bronc Village offers one-, two-, and four-bedroom furnished apartments. Each apartment bedroom is equipped with Ethernet port, cable connection, and telephone jack (phone service is the responsibility of the resident).

Each apartment is equipped with a refrigerator, dishwasher, stove/oven, microwave, and washer/dryer connections. Select apartments are equipped with washers and dryers for an additional fee.

Family housing is available at Bronc Village apartments; interested students, faculty, and staff should contact the Office of Residence Life for additional information on family housing.

Nine- and 12-month lease information/rates can be obtained by contacting the Office of Residence Life. Each apartment resident must purchase a minimum meal plan (declining balance) per long semester.

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.panam.edu>) to serve as a

research and information tool for students, faculty and clients. Education Building, Room 114, telephone 956/381-3437.

◆ 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. 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 and reactions toward tourism. The center's most recent publication are *A Winter Texan Guide to Community Volunteerism* and its 1998-99 *Winter Visitor Report*. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center. 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 the CSL, 100 Marine Lab Drive, South Padre Island, Texas 78597; telephone: 956/761-2644; fax: 956/761-2913; e-mail: dlh33e7@panam.edu; web: <http://www.panam.edu/dept/csl/csl.html>

◆ International Journal of Mathematics and Mathematical Sciences

The main editorial office of the International Journal of Mathematics and Mathematical Sciences (IJMMS) is established at the Department of Mathematics, The University of Texas-Pan American. This is a refereed weekly journal devoted to publications 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. Business Administration Building, Room 216B, telephone: 956/381-7136.

◆ Speech and Hearing Center

The UT Pan American Speech and Hearing Center's Speech-Language and Audiology clinics provide comprehensive evaluations for children, college students and older adults. The Speech-Language Clinic evaluates speech, language, feeding, swallowing and related behaviors. The Audiology Clinic evaluates hearing and provides hearing aid fittings. Clients may be referred to other treatment centers in the area or recommended for therapy in the Speech and Hearing Center. Therapy services are provided in the Speech and Hearing Center on a limited basis. The clinic treats communication disorders related to aphasia, fluency, developmental delay, voice, dysphagia, hearing impairment and others. Evaluation and therapy services are available in English or Spanish. The center also provides accent reduction classes for individuals learning American-English as a second language. Health Sciences and Human Services Building West, Room 1.112, telephone 956/381-3587.

◆ The University of Texas-Pan American Texas-Mexico Border Health Coordination Office

The mission of The University of Texas-Pan American Texas-Mexico Border Health Coordination Office (TMBHCO) 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 TMBHCO 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. TMBHCO, 800 Van Week Street, Edinburg, Texas 78541-2999; telephone: 956/381-3687.

► Outreach Centers

◆ Office of Center Operations and Community Services (COSERVE)

Telephone: 956/381-3361; Fax: 956/381-2322; web: <http://coserve1.panam.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. COSERVE's main office is in the International Trade and Technology Building. The activities and locations of individual centers are listed below.

- **Center for Entrepreneurship and Economic Development (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. International Trade and Technology Building, telephone: 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. Telephone: 956/316-2610.

- **The English Language Institute** — established in 1982 to prepare students to enter an academic program with academically oriented English, assist professionals and business people in career-oriented English and offer all participants the opportunity to learn functional use of the English language. The ELI encourages anyone who wishes to learn English in a serious yet friendly atmosphere to apply to any of its three programs: Intensive Day Program (192 hours), Semi-Intensive Evening Program (48 hours) and Semi-Intensive Saturday Program (48 hours). The ELI is located in Building E, Room 102; telephone: 956/381-2133.

- **Data and Information Systems Center (DISC)** — is the storehouse and provider of timely, relevant and quality data about the people and economy of the Southwest Border Region. International Trade and Technology Building, telephone: 956/381-3361.

- **Southwest Border Nonprofit Resource Center (SBNRC)** — serves as the catalyst for sustainable, long-term development of nonprofit organizations in the Rio Grande Valley and South Texas. UT Pan American Annex, 2412 S. Clossner Blvd., Edinburg; telephone: 956/316-2610.

- **Mexican Business Information Center (MBIC)** — provides the client with comprehensive information on Mexico to enable them to make better decisions and facilitate accurate analysis of Mexican market potentials. International Trade and Technology Building, telephone: 956/381-3361.

- **Industrial Partnership Center (IPC)** — assists manufacturers and suppliers in the Rio Grande Valley of Texas and Mexico by providing assistance in a global manufacturing environment. 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. Telephone: 956/316-7011.

- **The International Trade and Technology Center (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. International Trade and Technology Building, telephone: 956/381-3361.

- **South Texas Minority Business Opportunity Committee (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. UT Pan American Annex, 2412 S. Clossner Blvd., Edinburg, telephone: 956/316-2610.

- **Rio Grande Valley One Stop Capital Shop (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. UT Pan American Annex, 2412 S. Clossner Blvd., Edinburg, telephone: 956/316-2610.

- **EDA University Center (EDA-UC)** — serves as a catalyst to assist distressed communities in achieving their long-term competitive economic potential through the strategic investment of resources. International Trade and Technology Building, telephone: 956/381-3361.

- **Center for Local Government (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.

Director's office, International Trade and Technology Building; faculty advisor, Social and Behavioral Sciences Building, Room 124; Telephone: 956/381-3361.

- **Center for Manufacturing (CFM)** — provides assistance to current and prospective manufacturers through the utilization of services available from the center and from academic, industrial, governmental or private sources; also facilitates faculty research, providing training, experience and employment for students. Center for Manufacturing, telephone: 956/316-7011.

- **Community Outreach Partnership Center (COPC)** — mobilizes University and regional resources to act as a catalyst for community development in South Texas rural towns and colonias. UT Pan American Annex, 2412 S. Clossner, Edinburg; telephone: 956/385-3808.

- **Women's Empowerment Business Center (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. UT Pan American Annex, 2412 S. Clossner Blvd., Edinburg; 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 Art Department. The office for the University Galleries is adjacent to the Clark Gallery in the Fine Arts Complex. The gallery director may be reached at 956/381-2655.

web: <http://www.panam.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. 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. Health and Physical Education Building I, Room 110F; telephone: 956/381-2230.

◆ Faculty Artist Series

During the school year, the Department of Music presents a series of performances by faculty members and guest artists in addition to student recitals. Included in these recitals are vocal and instrumental performances. Fine Arts Complex, Room 132; telephone: 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. Telephone: 956/381-3471 for more information.

◆ Albert L. Jeffers Theatre

The University Theatre (recently renamed in honor of the University's largest single donor to date, Albert L. Jeffers) 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 and an early summer "Shakespeare in the Park" production.

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. Communication Arts and Sciences Building, first floor; telephone: 956/381-3581.

• Public Use of Facilities

The property, buildings or facilities owned or controlled by The University of Texas-Pan American are not open for assembly, speech or other activities as are the public streets, sidewalks and parks. The responsibility of the UT System Board of Regents to operate and maintain an effective and efficient system of institutions of higher education requires that the time, place and manner of assembly, speech and other activities on the grounds and in the buildings and facilities of the UT System or component institutions be regulated.

No person, organization, group, association or corporation may use property, buildings or facilities owned or controlled by UT Pan American for any purpose other than in the course of the regular programs or activities related to the role and mission of the University, unless authorized by the Regents' Rules and Regulations. Any authorized use must be conducted in compliance with the provisions of the Regents' Rules and Regulations, the University's Handbook of Operating Procedures, and applicable federal, state and local laws and regulations.

Anyone from outside the University who is seeking information about scheduling and use of University Special Use Facilities should contact the director of auxiliary services, University Bookstore; telephone: 956/381-2252.

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

Graduate
**Academic
Programs**

College of Arts & 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 (MFA) 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.

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Dr. Rodolfo Rocha, Dean

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Dr. Wallace E. Tucker, Assistant Dean

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E-mail: wtucker@panam.edu
On the web:
<http://www.panam.edu/colleges/coah.cfm>

ART

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Fine Arts Building B
Room 225
Telephone: 956/381-3480
Fax: 956/384-5072
E-mail: nmoyer@panam.edu

Prof. Philip Field, *Graduate Coordinator*

Art Annex
Room 101A
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E-mail: pfield@panam.edu

Graduate Faculty

Brown, Lenard, *Assistant Professor, Painting and Printmaking*
Field, Philip, *Professor, Painting*
Hyslin, Richard, *Professor, Sculpture and Ceramics*
Martin, Wilbert, *Professor, Printmaking and Drawing*
Moyer, Nancy, *Professor, Metals and Drawing*
Wissinger, Charles, *Assistant Professor, Ceramics*

■ Master of Fine Arts 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,

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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 in Art program, the student must first meet all requirements for graduate admission to UT Pan American (see page 15), as well as the other requirements listed below. Application for admission to the University must be made to the Office of Admissions and Records, Student Services Building, Room 108, The University of Texas-Pan American, 1201 West University Drive, Edinburg, Texas 78541-2999. 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 6 hours of graduate work may be transferred from other accredited institutions, provided such courses are acceptable by the department and have been taken within the required time period, seven years to graduation.

◆ Graduate Assistants

Graduate assistantships are available to exceptional applicants. Students who are interested in applying for an assistantship should contact the graduate coordinator. Assistantships are awarded in the spring for the following academic year.

◆ MFA Degree Requirements

The MFA in Art with a concentration in Studio Art requires the completion of a total of 60 semester hours of coursework that includes 33 hours of studio courses; 24 hours must be taken in the student's area of concentration and 9 hours will be taken in a minor studio area. The student must take 12 hours of art history courses and a 3-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 as set forth on page 15.

◆ Course Descriptions

A listing of graduate courses offered by the Department of Art can be found on page 163.

COMMUNICATION

Dr. Salma Ghanem, *Department Chair*

Communication Arts & Sciences Building

Room 165

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E-mail: Ghanem@panam.edu

Graduate Faculty

- Ellis, Cathryn, *Assistant Professor, Theatre/TV/Film*
 Ghanem, Salma, *Associate Professor, Journalism*
 Grabowski, Tom, *Assistant Professor, Theatre/TV/Film*
 McLemore, George C., *Associate Professor, Communication Studies*
 McQuillen, Jeffrey S., *Assistant Professor, Graduate Adviser, Communication Studies*
 Monta, Marian F., *Professor, Program Coordinator, Theatre/TV/Film*
 Saavedra, Dora E., *Associate Professor, Communication Studies*
 Selber, Gregory, *Assistant Professor, Program Coordinator, Journalism*
 Stanley, Jack, *Professor, Journalism, Theatre/TV/Film*
 Wiley, Eric, *Assistant Professor, Theatre/TV/Film*

■ Master of Arts in Communication

◆ Purpose

This program is designed for those who desire to pursue 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

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components of communication studies, including organizational, group, interpersonal, intercultural, journalism, public relations, mass media, and rhetorical and communication theory. The student will acquire a grounding in communication research, both theoretical and applied. Substantial flexibility exists for the student in Communication to design a course and research program that fits his or her unique and specialized professional and educational goals.

◆ Admission to Master of Arts Program in 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 15), as well as other requirements specified below. Application for admission to the University must be made to the Office of Admissions and Records, Student Services Building, Room 108, The University of Texas-Pan American, 1201 W. University Drive, Edinburg, Texas 78541-2999. All students applying for admission to the Master of Arts program in Communication are required to provide the graduate advisor in communication with the following:

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

Specific Admission Requirements

In addition to existing University requirements, the entering student must hold a bachelor's degree or its equivalent from a college or university accredited by

the regional accrediting association for the region in which the institution is located. In addition, the entering student must have a 2.5 grade point average in upper-division work, 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 Packet. A Graduate Student Packet is available from:

Department Graduate Advisor

Communication Department
1201 West University Drive
The University of Texas Pan American
Edinburg, Texas 78541-2999
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	
<i>or</i>		
COMM 6331	Mass Communication Theory	

Designated Electives 12 hours

All candidates select 12 hours of designated electives from coursework in Communication.

Free (non-Communication) Electives 6 hours

Students will take non-communication course electives in the fields of psychology, history, political science, English, sociology and business. Coursework must be approved by the graduate advisor.

Other Requirements		6 hours
Thesis		6 hours
<i>or</i>		
Free or Designated Electives		6 hours

TOTAL		36 hours
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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 15. Application for admission to the University may be made by contacting the Office of Admissions and Records, Student Services Building, Room 108, The University of Texas-Pan American, 1201 W. University Drive, Edinburg, Texas 78541-2999. In addition, the director of the graduate program in the Department of Communication must be supplied with the following information:

1. a copy of the Graduate Record Examination (GRE) scores; and

2. official transcripts of all previous graduate and undergraduate academic coursework.

Applicants must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association for the region in which the institution is located, have a 2.5 grade point average in upper-division work, 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 3 hours indicated are required. Only 6 hours of 5000-level courses will be applied to the degree.

Required Courses	3 hours
COMM 6300	Communication 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
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Select 6 hours of work outside the field to meet individual needs and interests with the approval of the graduate advisor.

Other Requirements	6 hours
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A 6-hour thesis is not required but strongly advised for students anticipating further graduate study. Students not selecting the thesis option may take 6 hours from designated or free electives approved by the student's graduate advisor.

TOTAL	36 hours
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Comprehensive Examinations

All candidates for the Master of Arts degree in Theatre will be required to pass comprehensive written and oral examinations encompassing the information and materials in Theatre and related coursework on the completion of at least 30 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:

- a. graduate courses in English literature, especially those relating to dramatic literature;
- b. graduate courses in communication;
- c. 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 6 hours of the master's program in Theatre be taken outside the students' major area of study. For teachers seeking certification, the 6 hours could be taken in their second teaching field. Theatre teachers most frequently have English or communication as the second teaching field. The 6-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 169.

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ENGLISH

Dr. Steven Schneider, *Chair*

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Dr. Robert Johnson, *Graduate Advisor*

Communication Arts and Sciences Building
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Graduate Faculty

Anderson-Mejias, Pamela, *Associate Professor*
Chenoweth, Ann, *Assistant Professor*
Daniel, Clay L., *Associate Professor*
Hamilton, Lee, *Associate Professor*
Hamilton, Rebekah, *Associate Professor*
Haule, James M., *Professor*
Johnson, Robert, *Associate Professor*
Jung, Even Hyuk, *Assistant Professor*
Lang, Yong, *Assistant Professor*
LaPrade, Douglas E., *Associate Professor*
Newman, Beatrice, *Professor*
Newman, Donald, *Associate Professor*
Reed, Michael D., *Professor*
Schneider, Steven P., *Professor*

► The Department of English Graduate Program

The Department of English offers courses leading to a Master of Arts in English, a Master of Arts in English as a Second Language, a Master of Arts in Interdisciplinary Studies with a concentration in English and a Master of Arts in Interdisciplinary Studies with a concentration in writing.

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 6 hours that were applied to the first master's (whether it was received from UT Pan American or elsewhere). The 36 semester hours (including any work counted on a previous master's) must include at least 27 hours of English, must include 24 hours at this institution and must be within the seven-year period.

◆ 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, 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.)

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

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 36 semester hours of undergraduate coursework in English, 24 advanced, with a minimum GPA of 3.25, or
- have completed at least 24 semester hours of undergraduate coursework in English, 12 advanced, with a GPA of 3.0. 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.

Conditional Admission

Students who do not satisfy unconditional admission criteria but who have been granted admission to graduate study by the Office of Admissions and Records 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 6 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 Course Committee.

■ Departmental Requirements for a Master of Arts Degree with a Major in English

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

1. The choice of courses in English (and other fields, if any) will be determined through consultation between the student and the departmental graduate advisor.
2. Each student must pass a comprehensive examination. A subject area determined in consultation with the departmental graduate advisor will be the major focus of this exam, along with questions taken from two other areas of the Literary Reading List. Specific works will be selected by the student in consultation with the departmental graduate advisor and the examination committee (selected by the student in consultation with the graduate advisor). A passing grade on this exam will be a majority determination of "Pass" by the examination committee. The graduate advisor may also grade the comprehensive exam if requested by the examination committee or to break a tie vote. The candidate is allowed to take this exam up to three times during work on the MA degree.
3. In addition, students seeking any graduate degree in English must have a cumulative GPA of at least 3.0 in the graduate hours taken in the Department of English of UT Pan American.

■ Major in English: Thesis Option

◆ Major Requirements

36 semester hours including a thesis; at least 24 must be in English.

Required Courses		9 hours
ENG 6300	Bibliography and Research Methods	
ENG 7300	Thesis	
ENG 7301	Thesis	
TOTAL		36 hours

■ Major in English: Non-Thesis Option

◆ Major Requirements

36 semester hours; at least 30 must be in English

Required Courses		3 hours
ENG 6300	Bibliography and Research Methods	
TOTAL		36 hours

► Departmental Requirements for a Master of Arts Degree with a Major in English as a Second Language

In addition to the general requirements stated elsewhere in this 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

36 hours including a thesis, with the option of taking a total of up to 6 hours in one or more other fields.

Requirements:		30 hours
ENG 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	ESL Testing	
ENG 7300	Thesis	
ENG 7301	Thesis	

Designated Electives 6 hours

Students are advised to take them from the following courses:

ENG 6325	Studies in Composition Techniques
ENG 6345	Problems in Grammar, Dialects and Language Performance
ED 6324	Second Language Teaching: Theory and Methodology

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

36 semester hours with the option of taking a total of up to 9 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	ESL Testing

Designated Electives **6 hours**

Select at least 6 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)

Electives **9 hours**

9 additional hours, chosen in consultation with the graduate advisor

TOTAL **36 hours**

► Departmental Requirements for a Master of Arts Degree in Interdisciplinary Studies with Concentration in English

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

1. Applicants who wish to concentrate in English must have completed at least 18 undergraduate hours in English, 6 of which must be advanced.
2. The choice of courses in the concentration and other fields will be determined through consultation between the student and the departmental graduate advisor.
3. Each student must pass a comprehensive examination. A subject area determined in consultation with the departmental graduate advisor will be the major focus of this exam, along with questions taken from two other areas of the Literary Reading List. Specific works will be selected by the student in consultation with the departmental graduate advisor and the examination committee (selected by the student in consultation with the graduate advisor). A

passing grade on this exam will be a majority determination of "Pass" by the examination committee. The graduate advisor may also grade the comprehensive exam if requested by the examination committee or to break a tie vote. The candidate is allowed to take this exam up to three times during work on the MA degree.

4. In addition, students seeking any graduate degree in English must have a cumulative GPA of at least 3.0 in the graduate hours taken in the Department of English of UT Pan American.

■ Master of Arts Degree in Interdisciplinary Studies with a Concentration in English: Thesis Option

◆ Major Requirements

18 semester hours in English (including thesis) and 18 semester hours in other fields.

Required Courses	9 hours
ENG 6300	Bibliography and Research Methods
ENG 7300	Thesis
ENG 7301	Thesis

TOTAL **36 hours**

■ Master of Arts Degree in Interdisciplinary Studies with a Concentration in English: Non-Thesis Option

◆ Major Requirements

18 semester hours in English (without thesis) and 18 semester hours in other fields

Required Course	3 hours
ENG 6300	Bibliography and Research Methods

TOTAL **36 hours**

■ 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. Department of English courses from which students can choose include the following:

ENG 6321	Studies in Language and Culture
ENG 6325	Studies in Composition Techniques
ENG 6390	Studies in Special Topics (Topics as scheduled. To include Technical Writing, Creative Writing, Editing for Publication and others.)
ENG 6360	Studies in English Literature
ENG 6370	Studies in American Literature

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.

■ Thesis Option: Major Requirements

18 semester hours in English (including thesis/writing project) and 18 semester hours in other fields

Required Courses		9 hours
ENG 6300	Bibliography and Research Methods	
ENG 7300	Thesis/Writing Project	
ENG 7301	Thesis/Writing Project	
TOTAL		36 hours

■ Non-Thesis Option Major Requirements

18 semester hours in English (without thesis) and 18 semester hours in other fields

Required Course		3 hours
ENG 6300	Bibliography and Research Methods	
TOTAL		36 hours

◆ Course Descriptions

A listing of graduate courses offered by the Department of English can be found beginning on page 186.

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HISTORY & PHILOSOPHY

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 Social & Behavioral Sciences Building
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 E-mail: MFC83B@panam.edu

Graduate Faculty

Adair, Penelope A., *Associate Professor*
 Buckman, Kenneth L., *Associate Professor*
 Faubion, Michael L., *Associate Professor*
 Henggeler, Paul R., *Associate Professor*
 McCormack, Brian, *Assistant Professor*
 Rocha, Rodolfo, *Professor*
 Salmon, Roberto M., *Professor*
 Weaver, Michael K., *Associate Professor*

► History Graduate Program

The department offers courses leading to the Master of Arts in History and the Master of Arts in Interdisciplinary Studies with a concentration in history. In addition, the department offers courses to meet the minor and support area requirements for degrees in other fields.

Students pursuing the MA in History may focus on one of several specializations and should consult with the graduate advisor in selecting coursework. The department's Graduate Studies Faculty Committee has developed a Policies and Procedures Handbook for graduate students that has additional information about the graduate programs in history.

■ Master of Arts Degree in History

◆ Departmental Requirements

In addition to the general requirements for graduate admission set out on page 15 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

Degree Options

Two options are available to graduate students under the program. Option I requires 24 hours of directed coursework and 6 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, 6 hours of non-history coursework in a single discipline (anthropology, sociology, computer science, etc.), and 6 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 30 hours of 5000/6000-level history coursework, including HIST 6300, and 6 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

◆ Departmental Requirements

Before admission to candidacy by the Department of History, applicants must have completed, or must

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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 9 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: 30 hours with 18 hours in history, including the thesis, which is required. Candidates must select the remaining 12 hours from two or more related fields such as political science, sociology, English, economics, Spanish, education or business.

2. Non-thesis program: 36 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

18 hours of graduate-level coursework in History with no more than half at the 5000-level, including 6 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

18 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
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TOTAL **36 hours**

◆ Course Descriptions

A listing of graduate courses offered by the Department of History and Philosophy can be found beginning on page 196.

MODERN LANGUAGES & LITERATURE

Dr. Michael Weaver, *Interim Head*

Communication Arts & Sciences Building
Room 329

Telephone: 956/381-3441

Fax: 956/318-5381

E-mail: MWC67f@panam.edu

Graduate Faculty

Behar, Stella, *Associate Professor*

Browne, Peter, *Associate Professor, Spanish*

Contreras, Victoria, *Associate Professor, Spanish*

Dominguez, Sylvia, *Professor, Spanish*

Martinez, Jose M., *Professor, Spanish*

Romero, Hector R., *Professor, Spanish*

Vassberg, Liliane, *Associate Professor*

► Overview

The Department of Modern Languages and Literature offers the Master of Arts Degree in Spanish with concentrations in Spanish literature and Spanish-American literature. Students may elect a thesis or non-thesis program.

► 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

30 hours in Spanish and 6 hours in a related minor field.

Required Courses 15-21 hours

Choose one according to selected concentration:

SPAN 6339 Special Studies in Spanish-American Literature (may be taken up to four times with different topics)

SPAN 6341 Special Studies in Spanish Literature (may be taken up to four times with different topics)

Designated Electives 9 hours

Select from the following:

SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher

SPAN 6344 Problems and Issues Related to Language

SPAN 6346 Special Studies in Spanish Civilization

SPAN 6347 Special Studies in Grammar and Composition

SPAN 6350 Special Studies in Spanish Linguistics

Thesis Option 6 hours

SPAN 7300 Thesis

SPAN 7301 Thesis

Minor 6 hours

TOTAL 36 hours

◆ 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 223.

MUSIC

Dr. Dahlia Guerra, *Department Chair*

Fine Arts Building
Room 133
Telephone: 956/381-3471
Fax: 956/381-3472
E-mail: guerrad@panam.edu

Graduate Faculty

Canty, Dean R., *Associate Professor*
Davis, Wendell R., *Assistant Professor*
Dabrowski, Peter, *Assistant Professor*
Grossman, Morley K., *Associate Professor*
Guerra, Dahlia, *Associate Professor*
Mizener, Charlotte, *Associate Professor*
Munn, Christopher, *Professor*
Munn, Vivian, *Associate Professor*
O'Neil, Lorne W., *Associate Professor*
Raimo, John, *Professor*
Smolensky, Marcus, *Assistant Professor*
Tucker, Wallace E., *Professor*

► Overview

The Department of Music offers the Master of Music degree, a 36-hour non-thesis program or 30-hour thesis program; a Master of Arts in Interdisciplinary Studies degree with a concentration in music, a 36-hour non-thesis program, as well as the Bachelor of Arts in Music and minors in applied music and teacher certification.

The 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 newly equipped 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, 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 coursework.

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 6 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/her 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+	6
	Elective in Music History, Theory, Pedagogy, or Applied Music	3
MUS 7300, 7301	Thesis	6

TOTAL **30**

* ANTH 6348 - Peoples and Cultures of Mexico

** SOC 6362 - Mexican American Society

*** HIST 6316 - Studies in Mexican and American Heritages

■ MUS 6335 Graduate History of Mexican Folk Music; MUS 6336 Border Music of South Texas PEDAGOGY OPTION (without thesis):

General education: COURSE	SCH
MUS 6334 Research Methods	3
MUS 6333 Music History & Literature	6
MUS 6332 Music Theory/Written & Aural	6

Core courses:	
MUS Music Electives	6
MUS 6240 Pedagogy of Major Instrument	2
MUS 6331 Pedagogy of Choice	9
MUS 6230 Applied Music	4

TOTAL **36**

■ PEDAGOGY OPTION (with thesis):

General education: COURSE	SCH
MUS 6334 Research Methods	3
MUS 6333 Music History & Literature	6
MUS 6332 Music Theory/Written & Aural	6

Core courses:	
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 6334 Research Methods	3
MUS 6333 Music History & Literature	6
MUS 6332 Music Theory/Written & Aural	6

Core courses:	
MUS Music Electives	6
MUS 6230 Applied Music in Major	
MUS 6240 Pedagogy of Major Instrument	2
MUS 6120 Chamber Music/Large Ensemble	4
MUS 6130 Recital	1
MUS 7300, 7301 Thesis	6

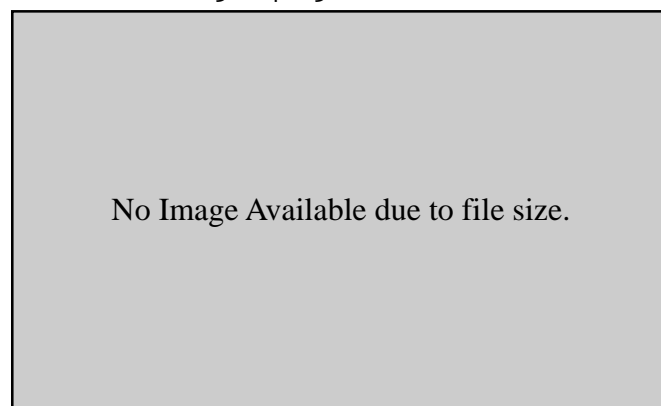
TOTAL **36**

◆ 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.



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■ 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 9 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
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Select from the following:

MUS 6230	Seminar in Applied Music
MUS 6130	Applied Recital
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
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TOTAL	36 hours
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◆ Course Descriptions

A listing of graduate courses offered by the Department of Music can be found on page 208.

College of Business Administration

► General Overview

The College of Business Administration (COBA) at The University of Texas-Pan American has 49 full-time faculty who serve approximately 2,250 students who are working toward the Doctor of Philosophy in Business Administration with an emphasis in International Business, the Master of Business Administration (MBA) or the Bachelor of Business Administration (BBA). Both the master's and undergraduate programs are fully accredited by AACSB International. Initial AACSB accreditation for the Ph.D. in Business Administration is currently being sought.

► 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 and the director of undergraduate studies assist 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, which is devoted to meeting regional needs.

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Dr. John Emery, Dean

Business Administration Building
Room 114
1201 West University Drive
Edinburg, Texas 78541-2999
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: emery@panam.edu
On the web:
<http://www.panam.edu/colleges/coba.cfm>

Dr. Evelyn Hume, Assistant Dean

Business Administration Building
Room 114
Telephone: 956/381-3311
Fax: 956/381-3312
E-mail: EHume@panam.edu

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► Graduate Programs in Business Administration

The MBA and the Ph.D. programs are administered through the Office of Graduate Studies in the College of Business Administration.

Graduate Faculty

Brewerton, F. J., *Professor, Management*
 Brown, Cynthia, *Assistant Professor, Finance*
 Cortes, Angelica, *Assistant Professor, Marketing*
 Davidson, Nancy, *Assistant Professor, Information Systems*
 Dávila, Alberto, *Professor, Economics*
 de los Santos, Gilberto, *Professor, Marketing*
 Ellard, Charles, *Professor, Economics*
 Feinberg, Martin, *Assistant Professor, Accounting*
 Greene, Walter E., *Professor, Management*
 Hausman, Angela, *Assistant Professor, Marketing*
 Hume, Evelyn, *Associate Professor, Accounting*
 Jarvis, Susan, *Professor, Business Law*
 Kaynak, Hale, *Assistant Professor, Management*
 Landry, Raymond, *Associate Professor, Accounting*
 LeMaster, Jane, *Associate Professor, Management*
 Matthews, Linda, *Assistant Professor*
 Minor, Michael, *Professor, Marketing*
 Moyes, Glen, *Professor, Accounting*
 Nasif, Ercan, *Associate Professor, Management*
 Owusu-Ansah, Stephen, *Professor, Accounting*
 Pagán, José, *Assistant Professor, Economics*
 Prock, Jerry, *Professor, Finance*
 Roge, Joseph, *Associate Professor, Computer Information Systems*
 Rydl, Lester, *Associate Professor, Information Systems*
 Sargent, John, *Assistant Professor, Management*
 Soydemir, Gokce, *Assistant Professor, Economics*
 Sturges, David L., *Associate Professor, Management*
 Thompson, William W., *Professor, Management*
 Vasquez-Parraga, Arturo, *Associate Professor, Marketing*
 Vincent, Vern C., *Professor, Quantitative Methods*

Master's Program in Business Administration

Dr. Jerry Prock, Director

Business Administration Building
 Room 124

Telephone: 956/381-2352 or 381-3313

Fax: 956/381-2970

E-mail: jprock@panam.edu

◆ Purpose

The Office of Graduate Studies in the College of Business Administration provides for advanced study leading to the Master of Business Administration (MBA) degree. The mission of the MBA program at The University of Texas-Pan American is to provide for the constituency of South Texas a high quality graduate business education program comparable to the leading regional business education institutions in the nation.

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; and,
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 graduate program requires a minimum of 30 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.

◆ Admission to the MBA Program

In order to be admitted to the MBA program, the student must first meet all requirements for admission to graduate study at The University of Texas-Pan American, as well as the MBA requirements specified below. Application for admission to the University must be made to the Office of Admissions and Records, The University of Texas-Pan American, 1201 W. University Drive, Edinburg, Texas 78541-2999.

All students applying for admission to the MBA program must provide the following to the University Office of Admissions and Records:

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).

Students must also provide the following to the College of Business Administration, Office of Graduate Studies:

1. Photocopy of application
2. Photocopies of transcripts from previous colleges and universities
3. Letter of Intent explaining why the student is pursuing an MBA
4. Graduate Management Admission Test (GMAT) scores. (See University Graduate Admission requirements beginning on page 15 of this catalog.)

Student Classification and Admission Criteria for the MBA Program

The student should note that classification and admission criteria for the MBA program are different from those for admission to the University for graduate study.

1. Special Student Admission - available to students with an undergraduate or graduate degree from a regionally accredited institution recognized by the Council on Postsecondary Accreditation (COPA) but lacking one or more of the following:
 - a. Official transcripts of all undergraduate and graduate work
 - b. GMAT score

2. Graduate Student Admission Classification - Students who satisfy the University graduate admission criteria (see pages 15-20) must then be evaluated for admission to the MBA program. Admission is based on an indication that the student will succeed in the MBA program.

Currently, the GMAT score in combination with the GPA of the last 60 credit hours is accepted as the general minimum criteria for admission to the MBA program [$GMAT + (200 \times GPA) = 950$]. Students can appeal to the MBA committee for admission based on some other strong indication of success in the program.

** Contact the MBA office for complete details regarding admission.*

Admission of Foreign Students

Foreign students whose native language is not English will be expected to take the Test of English as a Foreign Language (TOEFL). Students scoring below 500 on the TOEFL will be denied admission.

◆ Graduate Assistants

The College of Business Administration at UT Pan American employs graduate assistants to serve in the capacity of teaching assistants, research assistants or student assistants, depending upon the needs and budget of the college. The term of appointment is on a semester-by-semester basis with renewal based on successful academic and graduate assistant performance. Full-time graduate assistants are required to devote approximately 20 hours per week per semester to their assignment while maintaining an enrollment in a minimum of 6 hours of graduate coursework or 9 hours of undergraduate coursework leading to the completion of the MBA degree. Full-time graduate assistants are expected to devote their time and services solely to their graduate studies and graduate assistantship assignments. Graduate assistants employed during summer sessions are expected to enroll in at least one 3-hour graduate course or 6 hours of undergraduate coursework leading to the MBA degree. Reappointment of a graduate assistant shall be limited to a maximum of three years.

Applications for Assistantship Awards are available through the Office of the Dean or the Office of the MBA Program. The completed application must be submitted to the director of graduate studies and a copy filed with the dean of the college.

Decisions regarding the award of graduate assistantships are made on a competitive and/or

college-need basis by the director of the MBA program. Graduate students placed on academic probation or suspension are ineligible to serve as graduate assistants.

■ 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 MBA foundation courses or their equivalents.

MBA Foundation Courses		0-18 hours
INTB 6304	International Business Foundations	3
FINA 3383	Managerial Finance	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 International Association for Management Education must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the director of the Master of Business Administration Program.

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MBA Core 24 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
MIS 6330	Management Information Systems	3
MANA 6390	Strategic Management	3

Graduate Electives 6 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.

TOTAL FOR MBA DEGREE 33-48 hours

■ Thesis Option

A student may elect to write a thesis in lieu of the 6 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
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■ Professional MBA Program

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 9 hours of academic credit. All class meetings are scheduled on Saturdays only. Success in the program requires a serious commitment on the part of the student and the support and encouragement of the employer. For additional information, contact the director of the MBA Program.

◆ Course Descriptions

Descriptions of the courses for the MBA can be found under the appropriate course prefix title in the Course Descriptions section of this catalog beginning on page 160.

DOCTORAL PROGRAM IN BUSINESS ADMINISTRATION

Dr. Michael Minor, Director

Business Administration Building
Room 114

Telephone: 956/316-7135

Fax: 956/381-2867

E-mail: zunigam@panam.edu

◆ Mission

The doctoral 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 Ph.D. in Business Administration with an emphasis in International Business is a minimum 69-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 complete an internship in a foreign business or 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, and
5. official scores from the Test of Spoken English (TSE), if applicable.

In addition, the student must submit the following documents directly to the Doctoral 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, and
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 and reviewed for final approval by the Ph.D. program director. There are many factors that influence these decisions, and a telephone or personal interview is recommended after all application materials are received. 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.

In general, applications are for entrance to the program in fall semesters. For fall admission, all documents should be received by the doctoral program or the graduate school by March 15 preceding the fall of entrance desired. No spring or summer admission is permitted.

◆ Foundation Coursework

All students entering the doctoral 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 6 hours of linear algebra/calculus (MATH 1401 and MATH 2345)
Economics	minimum 3 hours at the graduate level (ECO 6350 or equivalent)
Accounting	minimum 3 hours at the graduate level (ACC 6320 or equivalent)
Finance	minimum 3 hours at the graduate level (FINA 6340 or equivalent)
Management	minimum 3 hours at the graduate level (MANA 6330 or equivalent)
Marketing	minimum 3 hours at the graduate level (MARK 6370 or equivalent)
Statistics	minimum 3 hours at the graduate level (QUMT 6303 or equivalent)

◆ Transfer of Coursework

Up to 18 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 doctoral degree is a minimum 69-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 69 hours include:

International Business Major	15 hours
Functional Area Major	15 hours
Quantitative Sequence	12 hours
Teaching Issues	3 hours

Support Field	9 hours
International Internship	3 hours
Dissertation	12 hours
Total	69 hours

Each student must demonstrate a fluency in Spanish, Portuguese or another 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, or 4) receiving scores above the seventieth (70) 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.

All students are required to take written and oral comprehensive examinations in their major fields and the support field at the close of the coursework stage of study. Successful completion of the exams is required before the student may enroll in dissertation hours. Once a student registers for the dissertation, he or she must continue to register for succeeding semester or summer sessions until the dissertation is completed. Credit is counted only once and then only upon successful completion of the dissertation program.

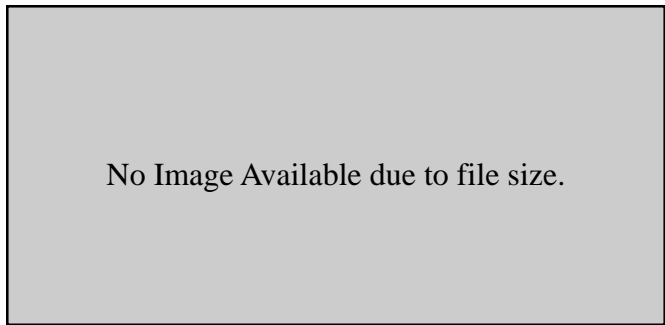
◆ Course Scheduling and Residency Requirement

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 9 hours in each semester. Hours of dissertation credit may not be used to fulfill this requirement.

◆ Maximum Period for Completion

A student has a maximum of 10 years from the date of first entry into doctoral-level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted by the student's Doctoral Dissertation Committee. If a student exceeds the 10-year limit, the Doctoral Dissertation Committee



will determine if the student will be permitted to continue in the program and what additional coursework or activities will be required to complete the degree.

◆ Financial Aid

The college has limited funds available exclusively for doctoral students. Decisions regarding the award of financial assistance from this fund are made on a competitive basis, and the judgment of the Admissions Committee regarding distribution of financial assistance is final. No financial aid from the doctoral program is usually available for part-time students. Incoming applicants requesting financial aid from the College of Business Administration should submit their request with their application materials. Continuation of financial aid will be reviewed each semester to ensure that the student is making satisfactory progress.

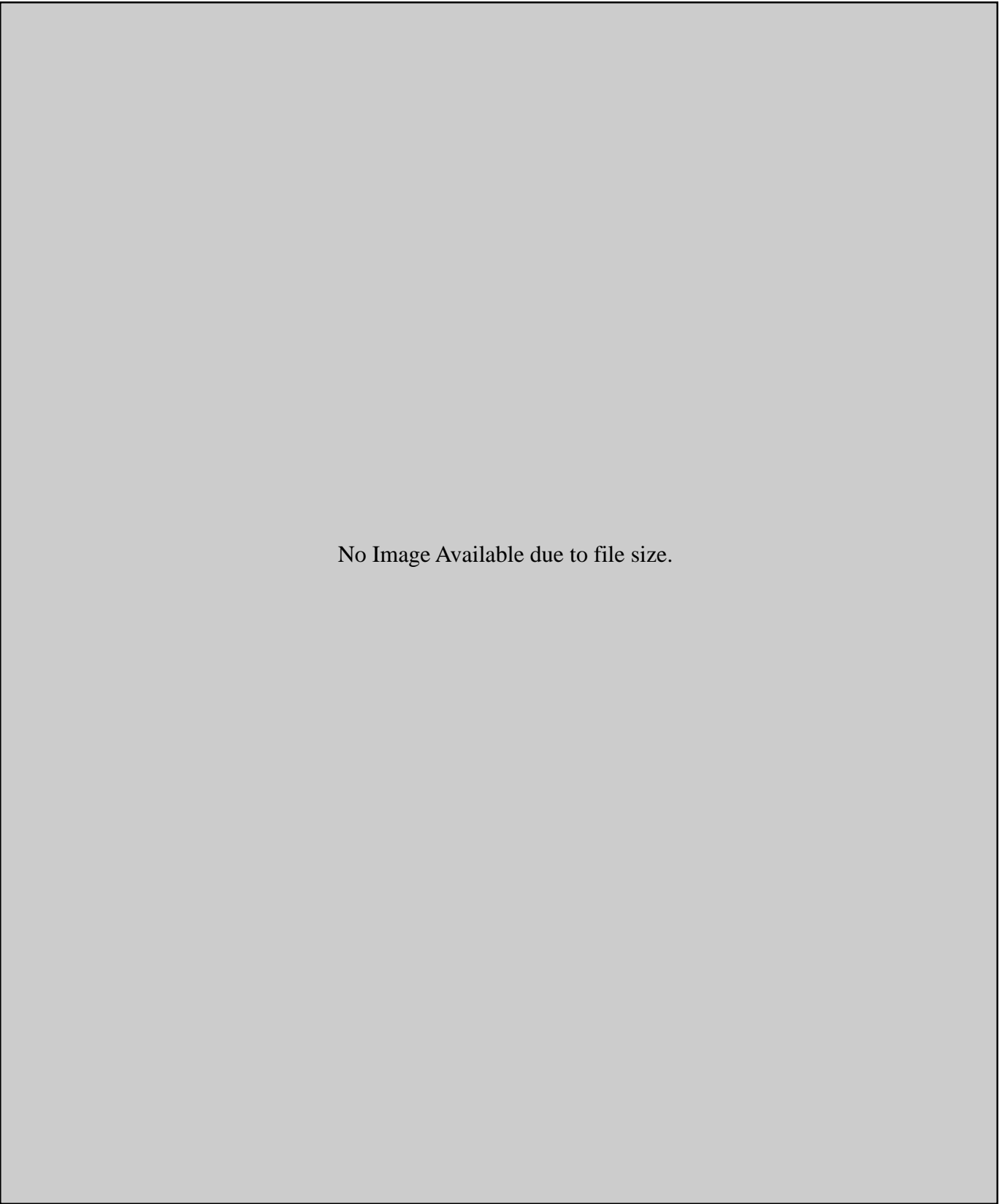
The Ph.D. program director will notify continuing students of the time lines for renewing or applying for financial aid.

Assistantships carry a stipend of up to \$10,000 per academic year. The student must be in good academic standing, enrolled in nine hours as a graduate student during the fall and/or spring semester and have satisfactorily completed one semester of a course in teaching methods (may be taken concurrently). The maximum amount of time allowed for assigned teaching and research duties is 20 hours per week.

Students should contact the UT Pan American 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 160.



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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, Kinesiology, Educational Administration; the Master of Arts in School Psychology; 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, Health and Bachelor of Interdisciplinary Studies for elementary teachers. The College of Education also offers undergraduate certification in Elementary, Secondary and All-Level Art, Music and Kinesiology Education with options for specialized endorsements in Special Education, Early Childhood, Bilingual Education and Gifted Education. Students are encouraged to

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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. Hilda Medrano, Dean

College of Education

Room 142

1201 West University Drive
Edinburg, Texas 78541-2999

Telephone: 956/381-3627

Fax: 956/381-2184

E-mail: medrano@panam.edu

On the web:

<http://www.panam.edu/colleges/coe.cfm>

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► **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 will be required to have completed 18 hours of undergraduate work in their proposed graduate major field. These 18 hours will include a minimum of 12 hours of advanced work. Each minor graduate field presented will require evidence of completion of 12 hours of undergraduate work, of which 6 must be advanced hours.
2. 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 Administration, Special Education, School Psychology, Guidance and Counseling, and Gifted Education are specifically outlined in their respective sections of this catalog.

◆ **Teaching 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, a supervisor or an administrator, or in gifted education. Candidates for the Master of Arts or the Master of Science degree should complete the academic requirements for the professional certificate in the major field selected for the degree.

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

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

An application for the professional certificate should be made in the Certification Office, Room 139, 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 & INSTRUCTION

Dr. José Ruiz-Escalante, *Department Chair*

Education Building
Room 239
Telephone: 956/381-3401 or 381-3402
Fax: 956/381-2434
E-mail: ruizj@panam.edu

Graduate Faculty

Estrada-Lopez, Veronica, *Assistant Professor*
Freeman, David, *Professor*
Freeman, Yvonne, *Professor*
Gomez, Leonides, *Associate Professor*
McBride, John W., *Professor*
Medrano, Hilda, *Professor and Dean*
Perez, Ricardo, *Professor*
Reeve, Robert H., *Professor*
Ruiz-Escalante, José, *Professor*
Solis, Dalinda, *Associate Professor*
Tevis, Martha, *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.

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 (*taken last semester of program*)

Specialization Area 12 hours

Language Component 6 hours

Required:

SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher
ENG 6321 Studies in Language and Culture

Socio-Historical Component 6 hours

Select 3 hours from:

SOCI 6350 Advanced Sociology of Education
SOCI 6361 Race and Ethnic Relations
SOCI 6362 Mexican-American Society
SOCI 6363 Borderlands and Inter-American Topics

Select 3 hours from:

HIST 6306 Studies in Texas and Southwestern History
HIST 6316 Studies in Mexican and American Heritages

Select 3 hours from the following:

Resource Area 3 hours

EDCI 6302 Multicultural Education *or*
EDUL 6388 Socio-Cultural Foundations of Education

Educational Research/Measurement 6 hours

Required:

EDCI 6310 Research Methods in Education

Select 3 hours from:

EPSY 6350 Introduction to Statistics
EDCI 6304 Measurement and Evaluation *or*
EPSY 6370 Educational and Psychological Measurement

** If the thesis option is selected, students must complete the thesis sequence below in place of the History (HIST) and Sociology (SOCI) course requirements listed in the specialization areas.*

ED7300 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 Multi-Cultural Society
EDEC 6381 First and Second Language Development in Young Children
EDEC 6382 Emergent Literacy Development
EDEC 6390 Internship in Early Childhood Setting I
EDEC 6391 Early Childhood Program Administration
EDEC 6392 Internship in Early Childhood Setting II

Professional Development 12 hours

Required:

EDCI 6310 Research Methods in Education
EDCI 6304 Measurement and Evaluation *or*
EPSY 6367 Introduction to Statistical Methods
PSY 6330 Advanced Studies in Child Development

Select 3 hours from the following:

SOCI 6361 Race and Ethnic Relations
SOCI 6350 Advanced Sociology of Education

Resource Areas 6 hours

Select 3 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

SPAN 6347 Teacher
Special Studies in Grammar and Composition

TOTAL 36 hours

Option: Thesis
Certificate: Non-Certification

ED 7300, 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: Non-Thesis
Certificate: Non-Certification

Content Courses 12 hours

Select from the following:

READ 6308 Foundations of Reading Instruction
READ 6309 Topics in Reading
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

Professional Development 9 hours

Select from the following:

EDCI 6301 Instructional Technology
EDCI 6303 Philosophy of Education *or*
EDCI 6302 Multicultural Education
READ 6308 Foundation of Reading Instruction
EDBE 6322 Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI 6305 Educational Curriculum I
EDCI 6304 Measurement and Evaluation *or*
EPSY 6350 Introduction to Statistics

EDUL 6370	Supervision of Instruction
EDEC 6390	Internship Early Childhood
EDEC 6380	The Young Child in a Multi-Cultural Society
EDEC 6382	Emergent Literacy Development

Resource Areas **9 hours**

Select from the following:

EDCI 6307	Research Issues and Trends
EDCI 6306	Special Projects
EDEC 6390	Internship Early Childhood
EDUL 6397	Analysis of Teaching Behavior <i>or</i>

6 hours from any of the graduate-level courses outside the major or minor fields 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: Thesis
Certificate: Non-Certification

Content Courses **12 hours**

Select from the following:

READ 6308	Foundations of Reading Instruction
READ 6309	Topics in Reading
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 **12 hours**

Select from the following:

EDCI 6301	Instructional Technology
EDCI 6303	Philosophy of Education <i>or</i>
EDCI 6302	Multicultural Education
EDCI 6306	Special Projects <i>or</i>
EDCI 6307	Research, Issues and Trends
READ 6308	Foundations of Reading Instruction
EDBE 6322	Bilingualism/Multiculturalism:

	Critical Issues and Practices
EDCI 6304	Measurement and Evaluation <i>or</i>
EPSY 6350	Introduction to Statistics
EDUL 6370	Supervision of Instruction
EDEC 6390	Internship Early Childhood
EDUL 6397	Analysis of Teaching Behavior <i>or</i>

Resource Area

The student may substitute 6 hours from any of the graduate-level courses outside the field of education for 6 hours of professional development courses.

Thesis **6 hours**

ED 7300, 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: Non-Thesis
Certificate: Non-Certification

Specialization Area (minor) **12 hours**

12 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.

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
EDBE 6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI 6305	Educational Curriculum
EDCI 6304	Measurement and Evaluation
EDUL 6370	Supervision of Instruction
EDUL 6397	Analysis of Teaching Behavior

Resource Areas **6-12 hours**

READ 6308	Foundations of Reading Instruction
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

6 hours from any of the graduate-level courses outside the major or minor fields may be taken as resource area courses.

Educational Research/Measurement	12 hours
EDCI 6310	Research Methods in Education (Required)
EDCI 6304	Measurement and Evaluation of Educational and Psychological Measurement
EPSY 6370	
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

◆ Program for Students Holding an Elementary Provisional Certificate

Option: Non-Thesis
Certificate: All-Level Reading Specialist

Reading Area	18 hours
READ 6308	Foundations of Reading Instruction
READ 6309	Topics in Reading
READ 6310	Child and Adolescent Literature
READ 6323	Problems in the Teaching of Reading
READ 6329	Diagnostic Teaching of Reading
READ 6325	Practicum in Reading Instruction

Resource Area	6 hours
SOCI 6361	Race and Ethnic Relations
ENG 6350	Introduction to Descriptive Linguistics for Teachers*

Linguistics for Teachers*

** If the student has credit for ENG 3319, substitute ENG 6351. Courses in Bilingual Education may be substituted.*

Educational Research/Measurement	6 hours
EDCI 5351	Teaching Reading to the Secondary Student
EDCI 6305	Educational Curriculum

Degree Requirements	6 hours
READ 5313	Reading Tests
EDCI 6310	Research Methods in Education

TOTAL **36 hours**

◆ Program for Students Holding a Secondary Provisional Certificate

Option: Non-Thesis
Certificate: All-Level Reading Specialist

Reading Area	18 hours
READ 6308	Foundations of Reading Instruction
READ 6309	Topics in Reading
READ 6310	Child and Adolescent Literature
READ 6323	Problems in the Teaching of Reading
READ 6329	Diagnostic Teaching of Reading
READ 6325	Practicum in Reading Instruction

Resource Area	6 hours
SOCI 6361	Race and Ethnic Relations
ENG 6350	Introduction to Descriptive Linguistics for Teachers*

** If the student has credit for ENG 3319, substitute ENG 6351.*

EDCI 6305 Educational Curriculum

Professional Development	6 hours
READ 5351	Teaching Reading to the Secondary Student*
EDCI 6305	Educational Curriculum

** If the student has credit for ED 4351, substitute approved elective.*

Educational Research/Measurement	6 hours
READ 5313	Reading Tests
EDCI 6310	Research Methods in Education

TOTAL **36 hours**

■ Master of Education Degree in Secondary Education

Option: Non-Thesis
Certificate: Non-Certification

Specialization Area 12-15 hours

12-15 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 or theatre.

Educational Research/Measurement 9 hours

EDCI 6310 Research Methods in Education
EDCI 6302 Multicultural Education *or*
EDCI 6303 Philosophy of Education
EDCI 6304 Measurement and Evaluation

Professional Development 12 hours

Required:

EDCI 6301 Instructional Technology
EDCI 6305 Educational Curriculum
EDCI 6308 Practicum for Teachers

Select 3 hours from:

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

Resource Area 3-6 hours

3-6 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

Option: 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, communication or theatre.

Educational Research/Measurement 9 hours

EDCI 6310 Research Methods in Education
EDCI 6302 Multicultural Education *or*
EDCI 6303 Philosophy of Education
EDCI 6304 Measurement and Evaluation

Professional Development 12 hours

Required:

EDCI 6301 Instructional Technology
EDCI 6305 Educational Curriculum
EDCI 6308 Practicum for Teachers

Select 3 hours from:

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

Resource Area 6 hours

6 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: 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, communication or theatre.

Educational Research/Measurement 9 hours

EDCI 6310 Research Methods in Education
EDCI 6302 Multicultural Education *or*
EDCI 6303 Philosophy of Education
EDCI 6304 Measurement and Evaluation

Professional Development 12 hours

Required:

EDCI 6301 Instructional Technology
EDCI 6305 Educational Curriculum
EDCI 6308 Practicum for Teachers

Select 3 hours from:

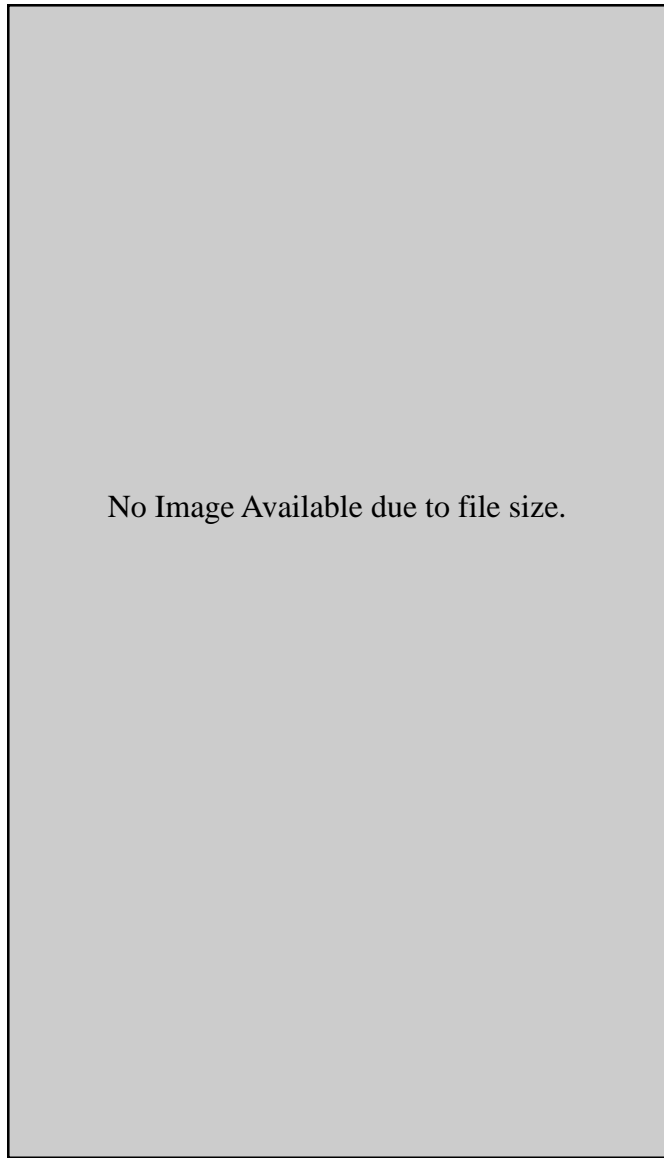
- EDCI 6306 Special Projects
- EDCI 6307 Research, Issues and Trends in Education

Thesis **6 hours**
 ED 7300, 7301

TOTAL **39 hours**

◆ **Course Descriptions**

A listing of graduate courses offered by the Department of Curriculum and Instruction can be found in the Course Descriptions section of this catalog beginning on page 176.



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EDUCATIONAL PSYCHOLOGY

**Dr. Jo Ann Mitchell Burns,
Department Chair**

Education Building
Room 244

Telephone: 956/381-3466

Fax: 956/381-2395

E-mail: iamitchell@panam.edu

Graduate Advisors

- Dr. Jo Ann Mitchell Burns, *Educational Diagnostician, School Psychology, Special Education*
- Dr. Harold Poelzer, *Gifted Education*
- Dr. Victor Alvarado, *Guidance/Counseling*
- Dr. Ralph Carlson, *School Psychology*
- Dr. Cheryl Fielding, *Educational Diagnostician*

Graduate Faculty

- Alvarado, Victor, *Professor*
- Mitchell, Jo Ann, *Associate Professor*
- Carlson, Ralph, *Professor*
- Poelzer, Harold, *Associate Professor*
- Simonsson, Marie V., *Assistant Professor*
- Fielding, Cheryl, *Assistant Professor*
- Zeng, Liang, *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 and an endorsement in Educational Technology.

► **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

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 serve to facilitate the growth and learning of students. The counselor, upon completion of the M.Ed. 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

Degree Requirements 6 hours

ED 6300 Introduction to Research

Select 3 hours from the following:

EPSY 6370 Educational and Psychological Measurements

EPSY 6350 Introduction to Statistics

Foundation Courses 6 hours

EPSY 6390 Human Growth and Development

Select 3 hours from the following:

EPSY 6391 Counseling the Culturally Diverse

SOCI 6361 Race and Ethnic Relations

SOCI 6362 Mexican-American Society

PSY 6340 Cross Cultural Psychology

Core Courses in Counseling 27 hours

EPSY 6361 Organization and Management of Guidance and Counseling Programs *or*

ED 6360 Introduction to Counseling and Guidance (*for Licensure Plan only*)

EPSY 6362 Personal/Social Development of the Counselor

EPSY 6363 Counseling Theories: Individual and Group

EPSY 6364 Counseling Methods and Techniques

EPSY 6365 Group Counseling Techniques

EPSY 6366 Lifestyle and Career Development

EPSY 6367 Assessment in Counseling and Development

EPSY 6368 Counseling Practicum I

EPSY 6369 Counseling Practicum II

TOTAL 39 hours

Licensure Plan **39 + 9 hours**

EPSY 6392 Counseling Practicum III
 EPSY 6393 Marriage and Family Counseling

Select 3 hours from the following:

EPSY 6100 Seminar in Counseling and
 Guidance (*repeat three times*)
 PSY 6305 Advanced Studies in
 Psychopathology

TOTAL LICENSURE PLAN **48 hours****◆ Requirements for Admission**

1. *Preliminary Admission to Counselor Education*
 - A. A student is required to be admitted to the University for graduate studies with "Tentative," "Probationary" or "Clear" admission. (See page 15 for admission requirements for graduate study.)
 - B. Upon admission to graduate studies, a student may enroll in EPSY 6350 or EPSY 6370 or 6361 or ED 6360 (Licensure Plan only).
 - C. The student is required to submit an application for admission to the Master of Education degree program in Guidance and Counseling.
2. *Provisional Admission to Counselor Education*
 - a. A student must have "Probationary" or "Clear" admission to graduate studies.
 - b. A student must satisfactorily complete EPSY 6361, EPSY 6362 and EPSY 6367 with a grade of "A" or "B."
3. *Formal Admission to Candidacy in Counselor Education*
 A student is required to:
 - a. have "Clear" admission to the University.
 - b. complete "Provisional" admission requirements
 - c. satisfactorily complete the Oral Examination.
 - d. demonstrate competence in the helping relationship.
 - e. have completed EPSY 6364 with a grade of "A" or "B."

NOTE: A student may not enroll in EPSY 6365, EPSY 6368 or EPSY 6369 without formal admission to Counselor Education.

◆ Appeal Process for Students Denied Admission

Students who are denied admission for any single reason may appeal to the Committee of 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 written comprehensive examination (to be taken during enrollment in EPSY 6368 in the Guidance and Counseling program).

■ Master of Education Degree - Educational Diagnostician

The primary purpose of the educational diagnostician/psychometrist is to serve on the appraisal team with responsibility in the appraisal of educational functioning, the appraisal of intelligence factors, the collection and analysis of data pertaining to sociological variables. He or she may assist in compiling information from various appraisal sources. The M.Ed. Degree in Educational Diagnostician provides an opportunity for the student to develop abilities as a psychometrist.

◆ Requirements for Admission

Preliminary Admission: A student is required to be admitted to graduate study by the University: "Tentative," "Probationary," or "Clear." (See the requirements stated on pages 19-20 for admission at the graduate level.)

◆ Degree Requirements

The student is responsible for checking with the Coordinator of Special Education for specific departmental and program requirements. The choice of courses will be determined through consultation between the student and his or her graduate advisor.

Major: Educational Diagnostician (all level)
Certificate: Educational Diagnostician

Knowledge of the Exceptional Child 6-9 hours

Required:

EPSY 6300 Individual Differences

NOTE: If students have an undergraduate minor in Special Education or have taken ED 4372, they may substitute another course from this area.

Select 3-6 hours from:

EPSY 6301 Emotionally Disturbed and Autistic

EPSY 6302 Psychology of Mental Retardation

EPSY 6303 Learning Disabilities

Knowledge of Psychoeducational Assessment and Other Diagnostic Procedures 9-12 hours

Required:

EPSY 6381 Psychological Assessment II

Select 6-9 hours from:

READ 6308 Foundations of Reading Instruction

READ 6329 Diagnostic Teaching of Reading

EPSY 6380 Psychological Assessment I

EPSY 6382 Psychological Assessment III

Knowledge of Human Development 3 hours

EPSY 6390 Human Growth and Development

Knowledge of Learning 6 hours

Select 6 hours from:

EPSY 6311 Applied Behavioral and Cognitive Therapies

ED 6303 Advanced Educational Psychology

PSY 6325 Theoretical Issues in Learning

Knowledge of Instructional Modification, Including Practical Application (Remediation Techniques and Materials) 6-9 hours

Required:

EPSY 6604 Practicum in Educational Diagnostician

READ 6308 Foundations of Reading Instruction

Educational Research/Measurement 9 hours

Required:

ED 6300 Introduction to Research

Select 6 hours from:

EPSY 6370 Educational and Psychological Measurement

EPSY 6350 Introduction to Statistics

TOTAL

39 hours

■ Master of Education Degree in Gifted Education

The purpose of the Master of Education degree program in Gifted Education is to prepare professionals to assume responsible leadership positions in the education of gifted and talented students. The objectives of the program are to provide in-depth study of:

1. theory, knowledge and practices in gifted education;
2. instructional strategies, program development and evaluation in gifted education;
3. measurement and assessment theory in gifted education;
4. the assessment and development of creativity; and
5. the special problems of gifted individuals.

The master's degree program in Gifted Education also provides opportunities for graduate students to develop professional competency through applied practice in different educational settings. Graduate students may elect to participate in opportunities to research gifted individuals from bilingual or multicultural or heterogeneous socioeconomic populations.

◆ Requirements for Admission

In addition to the University's graduate admission requirements, the Gifted Education program's admission requirements are as shown below:

1. The applicant must submit official transcript(s) of all prior undergraduate and graduate work, an official score report on the Graduate Record Examination (GRE), and completed application forms to the Office of Admissions and Records by the dates indicated in the University calendar beginning on page 4.
2. The applicant must hold a bachelor's degree from a college or university accredited by the regional accrediting association for the region in which the institution is located.
3. The applicant must have a 3.0 graduate admission grade point average (GPA) or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed.
4. The applicant must submit at least three

recommendations from persons in a position to judge the professional and academic potential of the candidate.

5. The applicant must participate in a structured interview with the chairperson of the Department of Educational Psychology and the faculty member coordinating the Gifted Program.

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

◆ Degree Requirements

The master's degree in Gifted Education provides the option of a 39-hour thesis program or a 39-hour non-thesis program. Both programs consist of a core of 24 hours including two 3-hour practicum courses, the first focusing on teaching gifted students and the second focusing on administration of gifted programs; 9 hours of designated electives; and 6 hours of thesis or 6 hours of applied research. The choice of courses will be determined through consultation between the student and his or her graduate advisor.

	Semester Credit Hours	
	Thesis	Non-Thesis
Required Core	24	24
Designated Electives	9	9
Free Electives	0	0
Thesis	6	N/A
Applied Research Project	N/A	6
TOTAL HOURS	39	39

◆ Curriculum

Required Core Courses 24 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
ED 6300	Introduction to Research
EPSY 6350	Introduction to Statistics

* Courses required for an endorsement in Gifted Education (TEA).

Designated Elective Courses 9 hours

Select from the following:

EPSY 6337	Administration of Gifted and Talented Programs
EPSY 6340	Critical and Creative Thinking for Gifted Students
EPSY 6341	Gifted Students in the Visual and Performing Arts
EPSY 6342	Seminar in Gifted Education
EPSY 6344	Gifted Child in the Regular Classroom
EPSY 6346	Independent Study
ED 6302	Advanced Educational Psychology
ED 6311	Advanced Child Psychology
EPSY 6370	Educational and Psychological Measurement
EPSY 6350	Introduction to Statistics
EPSY 6351	Intermediate Statistics
EPSY 6354	Program Evaluation

Thesis and Non-Thesis Options 6 hours

• Thesis

ED 7300	Thesis
ED 7301	Thesis

• Non-thesis

EPSY 7602	Applied Research Project (6 hours)
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TOTAL 39 hours

■ Master of Arts Degree in School Psychology

The purpose of the 60-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.

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 15, students must meet the School Psychology program admission requirements as shown below.

1. The applicant must have a 3.0 grade point average (GPA) or more on a 4.0 scale in the last 60 semester 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 for a 60-hour thesis program or a 60-hour non-thesis program. Both programs consist of a core 9 hours with 27 hours as designated electives. 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 Thesis	Credit Hours Non-Thesis
Required Core	9	9
Designated Electives	27	27
Free Electives	12	18
Thesis	6*	N/A

Applied Research Project	6	6
TOTAL HOURS	60*	60**

* If a student elects to complete a thesis, 6 hours of thesis can be credited toward the 60 hours required for a master’s degree in School Psychology.

**Students who elect a non-thesis program will be required to prepare and submit a research paper to a professional conference for presentation.

◆ Maintaining graduate student status in the School Psychology Program

1. A student must maintain a GPA of 3.0 or greater.
2. A student may earn two “C”s. However, upon earning 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 2. above.

◆ Curriculum

Psychology Core Courses 9 hours minimum

Required:

PSY 6320	Current Perspectives in Physiological Psychology
PSY 6325	Theoretical Issues in Learning
PSY 6311	Advanced Studies in Personality Theory

Select from the following as needed for electives:

PSY 6305	Advanced Studies in Psychopathology
EPSY 6301	Emotionally Disturbed and Autistic
ED 6302	Advanced Educational Psychology
PSY 6330	Advanced Studies in Child Development

Measurement 3 hours minimum

Required:

EPSY 6370	Educational and Psychological Measurement
-----------	-------------------------------------------

Select from the following as needed:

EPSY 6371	Models of Unbiased Assessment
EPSY 6373	Seminar in Quantitative Methods

Research Design 3 hours

ED 6300	Introduction to Research
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Statistics **3 hours minimum***Required:*

EPSY 6350 Introduction to Statistics

Select from the following as needed:

EPSY 6351 Intermediate Statistics
 EPSY 6352 Multivariate Analysis
 EPSY 6353 Seminar in Statistical Analysis
 EPSY 6354 Program Evaluation

Psychological Assessment **9 hours minimum***Required:*

EPSY 6380 Psychological Assessment I
 EPSY 6381 Psychological Assessment II
 EPSY 6382 Psychological Assessment III

Select the following as needed:

EPSY 6383 Psychological Assessment IV

Individual Differences **3 hours minimum***Required:*

EPSY 6300 Individual Differences

Select from the following as needed:

EPSY 6301 Emotionally Disturbed and
Autistic
 EPSY 6302 Psychology of Mental Retardation
 EPSY 6303 Learning Disabilities

Social/Cultural Foundations **3 hours minimum***Select from the following as needed:*

EDBE 6322 Bilingualism/Multiculturalism:
Critical Issues and Practices
 EDUL 6388 Sociocultural Foundations of
Education
 SOCI 6350 Advanced Sociology of Education
 SOCI 6362 Mexican-American Society
 COMM 6322 Culture and Communication
 COMD 6355 Normal and Abnormal Language
Development of Culturally
Diverse Populations

Intervention **6 hours minimum***Required:*

EPSY 6310 Introduction to School Psychology

Select from the following as needed:

EPSY 6311 Applied Behavioral and Cognitive
Therapies
 PSY 6315 Advanced Behavioral Management
 READ 6329 Diagnostic Teaching of Reading
 EPSY 6364 Counseling Methods and
Techniques
 EPSY 7352 Psychotherapy for Children

Internship **6 hours minimum***Required:*

EPSY 7350 Internship I
 EPSY 7351 Internship II

Thesis (Optional)

ED 7300 Thesis
 ED 7301 Thesis

■ Master of Education Degree in Special Education for the Culturally and Linguistically Diverse Exceptional Learner

The purpose of the Master of Education degree program in Special Education for the Culturally and Linguistically Diverse Exceptional Learner (CLDE) is to prepare professionals to assume responsible leadership positions in the education of individuals with disabilities who are culturally and linguistically diverse exceptional learners. The educational objectives of this program are to provide in-depth study of:

1. individuals with disabilities and culturally and linguistically diverse exceptional learners (CLDE);
2. theory, knowledge and practices in special education;
3. measurement and assessment theory of the culturally and linguistically diverse exceptional learner;
4. instructional and behavioral strategies, program development and evaluation of individuals with disabilities;
5. instructional technology and adaptive/assistive devices;
6. career education and transitional needs;
7. interagency coordination, consultation and collaboration with teachers, parents and ancillary personnel;
8. cultural diversity of learners and families;
9. knowledge of first and second language development;
10. knowledge necessary to conduct applied and basic research on the culturally and linguistically diverse exceptional learner.

The Master's Degree Program in Special Education for the Linguistically and Culturally Diverse Exceptional Learner provides opportunities for graduate students to develop professional

competencies through applied practice in educational settings and research opportunities involving learners and families from culturally and linguistically diverse backgrounds.

◆ Requirements for Admission

In addition to the University's requirements for admission to graduate studies, the Special Education Program's admission requirements for the Master of Education are based upon multiple criteria shown below.

1. The applicant must submit official transcript(s) of all prior undergraduate and graduate work, an official score report for the Graduate Record Examination (GRE), and completed UT Pan American application forms to the Office of Admissions and Records.
2. The applicant must hold a bachelor's degree from a college or university accredited by the regional accrediting association for the region in which the institution is located.
3. The applicant must have a 3.0 graduate admission grade point average (GPA) or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed.
4. The applicant must submit to the Special Education program in the Department of Educational Psychology the following documentation: official transcript(s) of all prior undergraduate and graduate work, official score report on the Graduate Record Examination (GRE) and completed special education program application form for the Master of Education Degree in Special Education for the Culturally and Linguistically Diverse Exceptional Learner. Application forms may be picked up in the Department of Educational Psychology. Four times each academic year (Feb. 21, April 1, Sept. 23, Nov. 1) the selection committee for the master's degree program in Special Education will meet to make their selections of candidates who will be accepted into the program.
5. The applicant must submit at least three recommendations from persons in a position to judge the professional and academic potential of the candidate.
6. The applicant must submit a statement of reason for pursuing a master's degree in Special Education along with his or her work experience with individuals with disabilities.
7. The applicant must have completed the following courses at the undergraduate or graduate level before beginning the program: survey class of individual differences; first and second language development;

and Educational Psychology or a class in growth and development.

8. The applicant must have work experience with individuals with disabilities or have completed a practicum or internship in special education.

9. The applicant must participate in a structured interview with the faculty member(s) of the Special Education program.

◆ Degree Requirements

The Master's Degree in Special Education provides the option of a 39-hour thesis program or a 39-hour non-thesis program. Both programs consist of a core of 24 hours, with 6 hours as designated electives and 9 hours as free electives. 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 the advisor.

	Semester Credit Hours	
	Thesis	Non-Thesis
Required Core	27	21 or 24
Designated Electives	6	3 or 6
Electives	9	6 or 9
Thesis	N/A	6
TOTAL HOURS	39*	39**

* If a student elects to complete a thesis, 6 hours of thesis can be credited toward the 39 hours required for a Master's Degree in Special Education.

**Students who elect a non-thesis program will be required to be involved in a research project.

◆ Maintaining Graduate Student Status in the Master of Education Program in Special Education for the Culturally and Linguistically Diverse Exceptional Learner

1. A student must maintain a GPA of 3.0 or greater.
2. A student may earn one "C." Upon earning a second "C," he or she will be terminated from the program in Special Education.
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 does not alter the "C" rule described in 2. above.

◆ Special Requirements for the Master of Education Program in Special Education

1. All students in the master's degree program in

Special Education must pass a written comprehensive examination covering coursework deemed important by the Special Education Graduate Committee. Students will be eligible to take the examination after completing 36 semester hours of coursework in the program.

2. The student will demonstrate his or her proficiency as a consultant and collaborator with parents, professionals, and agencies in the education of culturally and linguistically diverse students with disabilities. Growth in this proficiency as well as other special education skills will be documented via a portfolio that the student will develop throughout his or her graduate program. The student will present this portfolio to his or her graduate committee for assessment at the culmination of this program. There will be an oral defense of the portfolio. The portfolio will include, but not be limited to, documentation of the following research that has been completed by the student: applied research, projects, practica, professional conference presentation, parent training session, seminary participation, and presentations and journal article submission. The student and committee chair shall determine the appropriate contents of the portfolio.

◆ Curriculum

Required Core Courses

EPSY 6350	Introduction to Statistics
EPSY 6370	Educational and Psychological Measurement
ED 6300	Introduction to Research
ED 6302	Advanced Educational Psychology
EPSY 6304	Culturally and Linguistically Diverse Exceptional Individuals in Special Education
EPSY 6320	Consultation and Collaboration with Parents, Professionals, and Agencies
EPSY 6389	Assessment and Instructional Adaptations for Culturally and Linguistically Diverse Students with Mild Disabilities

Designated Electives

6 hours

Select 3 hours:

SOCI 6361	Race and Ethnic Relations
EDUL 6388	Socio-Cultural Foundations of Education

Select 3 hours:

EPSY 6390	Human Growth and Development
PSY 6330	Advanced Studies in Child Development

Electives

9 hours

Select 9 credit hours depending upon the area of specialization determined through consultation between the student and the advisor.

Problems and Issues

EPSY 6305	Problems, Trends and Issues: Medical and Physical Aspects of the Education of Individuals with Severe and Profound Disabilities
EPSY 6306	Problems, Trends and Issues: Infant and Early Childhood Special Education
EPSY 6313	Problems, Trends and Issues: Interdisciplinary Coordination and Parent Consultation with Individuals with Severe and Profound Disabilities

Intervention and Literacy

EPSY 6311	Applied Behavioral and Cognitive Therapies
EPSY 6314	Strategies, Curricula and Materials for Individuals with Severe and Profound Disabilities
EPSY 6315	Strategies, Curricula and Materials for Teaching the Seriously Emotionally Disturbed
EPSY 6317	Literacy for Secondary Students with Mild Disabilities
EPSY 6318	Instructional Technology and Adaptive Assistive Devices for the Exceptional Individual
KIN 5351	Kinesiology Curriculum for the Handicapped Student Assessment
EPSY 6385	Specialized Assessment Techniques and Program Planning for Teaching

Individuals with Autism and Pervasive Developmental Disorders

EPSY 6386	Specialized Assessment Techniques and Program Planning for Infants with Disabilities
EPSY 6387	Specialized Assessment Techniques and Program Planning for Young Children with Disabilities
EPSY 6388	Specialized Assessment Techniques and Program Planning for Teaching

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Individuals with Severe and Profound Disabilities Exceptionalities

EPSY 6301	Emotionally Disturbed and Autistic
EPSY 6302	Psychology of Mental Retardation
EPSY 6303	Learning Disabilities
COMD 6325	Childhood Language Disorders and Intervention

Thesis (Optional)	6 hours
ED 7300	Thesis
ED 7301	Thesis

TOTAL **60 hours**

◆ Endorsements

Certificate in Generic Special Education (graduate level)

1. Texas Teaching Certificate
2. See the department for course requirements for graduate-level endorsements in Emotionally Disturbed and Autistic, Severely and Profoundly Handicapped, and Early Childhood-Handicapped.

Endorsement in Gifted Education

1. Texas Teaching Certificate
2. EPSY 6330, EPSY 6331, EPSY 6332, EPSY 6333 and EPSY 6334.

◆ Course Descriptions

A listing of graduate courses offered by the Department of Educational Psychology can be found in the Course Descriptions section of this catalog beginning on page 188.

HEALTH AND KINESIOLOGY

Dr. Ricardo J. Perez, Interim Department Chair

Physical Education Complex I
Room 1.110

Telephone: 956/381-3501

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Graduate Faculty

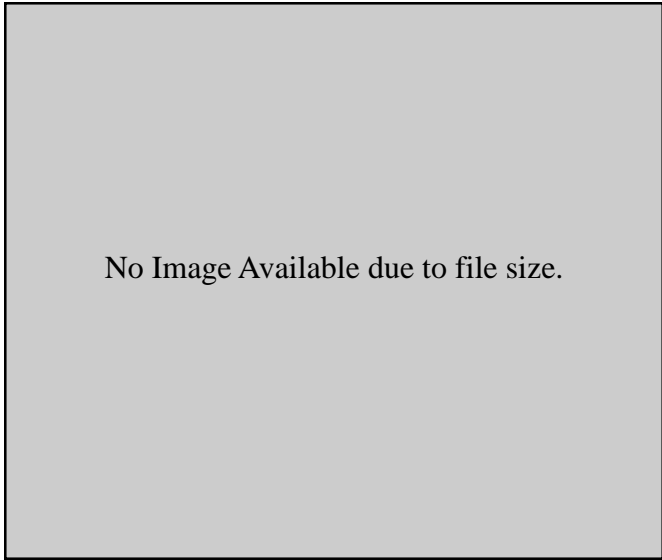
Chen, Shihui, *Assistant Professor, Kinesiology*
Darsow, Fred, *Assistant Professor, Dance*
Dugas, Donna, *Assistant Professor, Kinesiology*
Gonzalez, Juan, *Assistant Professor, Kinesiology*
Guinn, Robert, *Professor, Health*
Jorgensen, Layne, *Professor, Kinesiology*
Mottinger, Sue, *Associate Professor, Kinesiology*
Semper, Louis, *Associate Professor, Kinesiology*
Villas, Paul, *Associate Professor, Health*

► Graduate Program

The Department of Health and Kinesiology offers a Master of Science degree with a major 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 must 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.

Six 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, The UT System TeleCampus web site, www.telecampus.UTsystem.edu or contact Dr. Layne Jorgensen at lj85f@panam.edu or Dr. Sue Mottinger at mott@panam.edu

The Department of Health and Kinesiology uses the University's entrance requirements for graduate



student admission to the department’s master’s program. Students entering the program must have an undergraduate degree in Kinesiology (Physical Education) or a related field to be determined by the graduate coordinator. Students not meeting their requirement must do 18 hours of leveling work prior to beginning their studies. The graduate coordinator will determine the courses to be taken.

Master of Science Degree in Kinesiology

Major: Kinesiology
 Certificate: Professional

Specialization Area **24-36 hours**
 Required: *12 hours*

- KIN 6301 History and Philosophy of Kinesiology
- KIN 6302 Methods of Research in Kinesiology
- KIN 6303 Applied Tests and Measurements in Kinesiology
- KIN 6304 Scientific Foundations of Kinesiology

Electives: *12-24 hours*
 Select 12-24 hours from the following depending upon the resource area:

- 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 Including Students with Disabilities in Regular Physical Education
- KIN 6331 Special Techniques of Motor Assessment for Individuals with Disabilities
- KIN 6332 Adapted Sports and Activities for Individuals with Disabilities
- KIN 5313 Workshop in Kinesiology
- KIN 5351 Kinesiology Curriculum for the Handicapped Student
- KIN 5357 Health Seminar
- 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 the same discipline other than those offered in kinesiology to complete the degree requirements.

TOTAL 36 hours

NOTE: Obtaining a Master of Science degree with a major in Kinesiology usually requires a minimum of two years. Prospective master’s candidates should realize that the required courses usually cycle every two years and that missing a course may delay their graduation. Once the program is begun, the candidate has seven years to complete the requirements.

U.T. TeleCampus courses are available for elective credit. This list may not be complete, as courses are being added. Check <http://www.telecampus.utsystem.edu> for an up-to-date list.

Course Descriptions

A listing of graduate courses offered by the Department of Health and Kinesiology can be found in the Course Descriptions section of this catalog on page 199.

EDUCATIONAL LEADERSHIP

Dr. Velma D. Menchaca, *Department Chair*

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Trueba, Henry T., *Professor*
de los Santos, Miguel, *Associate Professor*
Llanes, Jose R., *Professor*
Menchaca, Velma D., *Associate Professor*
Oliva, Maricela, *Associate Professor*
Wallin, Dawn, *Assistant Professor*
Watt, Karen, *Assistant Professor*

► General Overview

The Department of Educational Leadership offers a Master of Education degree in School Administration and a Doctor of Education (Ed.D.) degree in Educational Leadership.

In addition to the two degrees, programs leading to a 48-hour Principal's Certificate and a 63-hour Superintendent's Certificate also are offered.

All students desiring to complete an M.Ed. program in the Department of Educational Leadership must meet University graduate entrance requirements. Students must also meet College of Education and departmental entrance 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 School Administration and Supervision. Students enrolling in more than six semester hours and who have failed to complete all of the below listed admission requirements will be dropped from these courses. Students must be admitted to the department before they can take more than six hours.

In the event more than six hours have been completed before being admitted, there will be no course credit given toward the M.Ed. or the appropriate certificate.

► Master's Programs and Certificates

◆ Admission Requirements

Admission Requirements for Master of Education Degree Program in the Department of Educational Leadership:

1. Admission to the University for graduate study.
2. Undergraduate grade point average (last 60 hours) x 200 + GRE must be 1250 or greater.
3. A complete application for admission to the Administrator's Program (including GRE score, Graduate School admissions letter, official transcripts and educator certificate).
4. Approval by the Department of Educational Leadership Admissions Committee.

Admission requirements for Principal Certification Program:

1. Completion of M.Ed. in Educational Administration at UT Pan American and the graduate GPA x 200 + GRE score must be 1350.
2. Approval by the Department of Educational Leadership Admissions Committee.

Admission Requirements for School Superintendent Certification Program:

1. Completion of the Middle Management or Principal Certificate.
2. Graduate GPA x 200 + GRE score must be 1450 or greater.
3. Public school administrative experience.
4. Approval by the Department of Educational Leadership Admissions Committee.

◆ The Temporary Administrator's Certificate

Current certification regulations permit the issuance of a temporary certificate to persons being employed as administrators prior to their completing the requirements for full certification. This temporary certificate shall be valid for five years and cannot be renewed. The University of Texas-Pan American will recommend applicants for a Temporary Administrator's Certificate if they meet the following criteria:

• Assistant Principal

1. Holds a bachelor's degree.
2. Holds a Provisional Teacher's Certificate.
3. Two years of creditable classroom teaching experience.

4. A minimum of 12 graduate hours of the identified program core required for the Professional Administrator's Certificate.

5. Approved by the Department of Educational Administration Admissions Committee for the Administrator's Program.

6. Admitted to University for graduate studies.

7. Completed application for the Temporary Administrator's Certificate.

8. Submitted a money order or cashier's check for \$75 (made payable to the Texas Education Agency) with the application for certification.

• Principal

1. Holds a master's degree.

2. Holds a Provisional Teacher's Certificate.

3. Two years of creditable classroom teaching experience.

4. Completed a minimum of 12 graduate hours of the identified program core required for the Professional Administrator's Certificate.

5. Has been approved by the Department of Educational Leadership Admissions Committee for the Administrator's Program.

6. Admitted to University for graduate studies

7. Completed application for the Temporary Administrator's Certificate.

8. Submitted a money order or cashier's check for \$75 (made payable to the Texas Education Agency) with the application for certification.

• Superintendent

1. Holds a Principal's Certificate.

2. Approved by the Department of Educational Leadership Admissions Committee for the superintendent's program.

3. Admitted to University for graduate studies

4. Completed application for the Temporary Superintendent's Certificate.

5. Submitted a money order or cashier's check for \$75 (made payable to the Texas Education Agency) with the application for certification.

NOTE: Candidates applying for professional certificates must pass the ExCET and must also have completed the preparation review sessions for the exam.

• Degree/Certification 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 Doctor of Education degree is offered by the Department of Educational Leadership. See the section on the program for further information.

A 36-hour M.Ed. program is offered. A maximum of 12 hours may be transferred from an accredited institution or from another department at UTPA. Upon the successful completion of an additional 12 hours minimum in administration, the student may earn the Principal's Certificate. The certificate for the superintendent requires an additional 15 hours beyond the Principal's Certificate.

■ Master of Education

Major: Educational Administration
Option: Thesis/Non Thesis

Prerequisites for Program 6 hours

EDUL 6367	Introduction to Statistical Methods*
EPSY 6350	Introduction to Statistics
EDUL 6300	Introduction to Research*

* These courses above should be taken at the beginning of the student's program.

Program Coursework 30 hours

EDUL 6384	Introduction to Educational Administration*
EDUL 6333	Elementary and Secondary Curriculum (EDUL 6333 is a prerequisite for EDUL 6334.)
EDUL 6334	Curriculum Development-Problems and Processes
EDUL 6337	Administration of Special Instructional Programs
EDUL 6386	Administration of Pupil Personnel Services
EDUL 6389	Administration of School Business Services
EDUL 6385	Public School Law
EDUL 6388	Socio-Cultural Foundations of Education
EDUL 6369	Administrative Technology in Schools
EDUL 6392	School-Community Relations
EDUL 6336	Problems in Education

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(Students choosing to conduct a research project may choose this course.)

Thesis 6 hours

If the thesis option is selected, students must complete the thesis sequence below in place of EDUL 6337 and EDUL 6369 course requirements listed under program coursework.

EDUL 7300	Thesis
EDUL 7301	Thesis

TOTAL 36 hours

• **Certificate: Principal**

Once a student completes the Master of Education degree, the certificate for the Principalship requires an additional 12 hours (two 6-hour courses and a two-semester internship).

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

* *Should be taken after master's degree coursework is complete.*

** *Should be taken toward the last 6 hours of certification.*

TOTAL 48 hours

NOTE: Candidates applying for professional certificates must pass the ExCET.

• **Certificate: Superintendent**

The Principal's Certificate (see above) is required for entrance to the Superintendent program. The student must then complete the courses below.

Superintendent Certificate 15 hours	
EDUL 7310	Administration of School Facilities
EDUL 7312	Social-Political Problems of the Superintendent
*EDUL 7313	Internship for the Superintendent
EDUL 7314	The Superintendent
EDUL 7315	Texas School Finance

* *Must be taken as the final course in the program.*

TOTAL 63 hours

NOTE: Candidates applying for professional certificates must pass the ExCET.

◆ **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 180.

DOCTORAL PROGRAM IN EDUCATIONAL LEADERSHIP

College of Education
Room 114C
Telephone: 956/316-7173
Fax: 956/381-2941

In 1998, the Texas Higher Education Coordinating Board approved independent degree-granting authority for UT Pan American to begin a doctoral program in Educational Leadership. The first cohort of students was selected in 1998 and began work the fall semester of that year.

► Degree Program

The Doctor of Education degree (Ed.D.) 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 Criteria

Admission decisions are made by a committee of professors of The University of Texas-Pan American assisted by a group of education professionals from area school districts. Selection of doctoral candidates is based on the match between each of the candidate's qualifications and the criteria for selection. Students entering the doctoral program are expected to have knowledge of the history and philosophy of education and human learning. It is anticipated that every two years a cohort of approximately 14 persons will be admitted. Students are admitted as a cohort, which means that they take classes together.

The next cohort will be selected in the spring of 2003 to begin their work in the summer of that year. Admission materials for selection to this cohort must be submitted to the Director of the Doctoral Program, The University of Texas-Pan American, College of Education. The deadline for submission of those materials will be announced in fall 2002.

Interested applicants may call the doctoral program at 956/316-7173.

The admission process consists of two parts:

Part 1: The student must provide evidence of the following:

1. master's degree or the equivalent;
2. GPA of 3.0 or higher on all upper-division and graduate coursework;
3. GRE scores;
4. official copies of all transcripts;
5. three letters of reference;
6. completion of UT Pan American's doctoral

program and graduate school admission forms;
7. evidence of successful teaching, administrative and/or community leadership experience.

Part 2: Participation in an Assessment Center is also required. Activities during the Assessment Center process may include the following:

- Oral presentation
- Test of analytical thinking
- Personal interview
- Individual Presentation
- Group leadership exercise
- Writing exercise

◆ Program of Study

The program of a doctoral student consists of 69 course credit hours, including six hours for the dissertation. Fifty-four of these hours must be in the Department of Educational Leadership. Each student must be registered for at least six credit hours for two consecutive semesters or a semester and two summer sessions to satisfy the requirement of residence. It is possible to work toward certification for the superintendency or principalship during the doctoral work, but work for superintendency or principalship certification is in addition to the stated number of hours for doctoral work.

The program requires the following work:

Foundation courses

COURSE AREA

• Foundation courses: *	0 SCH
• Research Courses: **	15 SCH
• Foundation/Core Courses:	39 SCH
• Electives:	6 SCH
• Internship:	3 SCH
• Dissertation or Intensive Field Study:	6 SCH
• Minimum No. of SCH:	69 SCH

* a. *Foundation courses*

Leveling and prerequisite courses that do not count for degree credit.

** b. *Courses required of all students in the proposed program:*

1. Research Courses (15 SCH Required)

These courses include work in quantitative methodology, qualitative methodology, theories of

inquiry, and research design and data analysis. The 15 SCH will be taken from the following courses:

EDUL 8351	Introduction and Application of Research Methods
EDUL 8353	Quantitative Research Methods I
EDUL 8322	Qualitative Research
EDUL 8320	Design and Analysis of Field Studies
EDUL 8321	Data Analysis

2. Core Courses (48 SCH required)

All students admitted to the doctoral program in Educational Leadership will be expected to complete a minimum of 48 SCH in core courses.

EDUL 8303	Educational Politics and Policy
EDUL 8304	Social and Cultural Contexts of Education
EDUL 8305	Economics of Education
EDUL 8306	Ethics and Values in Educational Administration
EDUL 8307	Organizational Theory in Education
EDUL 8330	Education Law Seminar

3. The Superintendency Certificate

During the doctoral program, students may elect to complete requirements for the Superintendency Certificate. These students must first complete the requirements for the principal certificate and may have to take additional semester hours of work. Students electing to pursue the Superintendency Certificate may use the following courses as electives in the Ed.D. Program with the permission of the director of the doctoral program and the chair of the Department of Educational Leadership.

ED 7312	Sociopolitical Problems & the Superintendency (or)
*EDUL 8303	Educational Politics and Policy
ED 7313	Internship for the Superintendency (or)
EDUL 8350	Doctoral Internship
ED 7314	The Superintendency (or)
*EDUL 8323	Selected Topics in Research
ED 7315	Texas School Finance (or)
*EDUL 8305	Economics of Education

4. Electives (6 SCH required)

In addition to these requirements, courses are offered at UTPA in a variety of fields that may be related to the doctoral student's particular area of interest. Many graduate courses currently in UTPA's

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inventory may be used as supporting work. Students may choose from among those courses with the advice from their advisors in order to support their career and research goals.

5. Once a student registers for the dissertation, he or she must continue to register for succeeding semester or summer sessions until the dissertation is completed. Credit is counted only once and then only upon successful completion of the dissertation program.

For further information and to obtain application materials, contact:

Director, Educational Leadership Doctoral Program

Department of Educational Leadership
College of Education
The University of Texas-Pan American
1201 W. University Drive
Edinburg, Texas 78541-2999
Telephone: 956/316-7173; Fax: 956/381-2941

◆ **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.

◆ **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 160.

College of Health Sciences & 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.

► 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, and the Master of Science in Social Work degree, and the Cooperative Pharmacy Program with The University of Texas at Austin.

The College also offers a Bachelor of Science degree in Clinical Laboratory Sciences, Dietetics, Nursing, Occupational Therapy, Physician Assistant Studies, and Rehabilitative Services; a Bachelor of Arts in Communication Disorders; and a Bachelor of Social Work degree.

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 service and social service facilities in South Texas and other regions.

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Dr. William J. McIntyre, *Interim Dean*

Health Sciences and Human Services West (HSHW)

Room 2.128/2.130

1201 W. University Drive

Edinburg, Texas 78541-2999

Telephone: 956/381-2291

Fax: 956/384-5054

E-Mail: mcintyrew@panam.edu

On the web:

<http://www.panam.edu/colleges/cohshs.cfm>

Cooperative Pharmacy Program

Dr. William J. McIntyre, *Assistant Dean*

Health Sciences and Human Services West (HSHW)

Room 2.124

Telephone: 956/318-5255

Fax: 956/384-5054

Email: mcintyrew@panam.edu

Full-time Faculty

Canales, Patricia L., *Assistant Professor*
McIntyre, William J., *Associate Professor*

► Introduction

The University of Texas-Pan American, in cooperation with The University of Texas at Austin College of Pharmacy, offers a six-year curriculum leading to the Doctor of Pharmacy (Pharm.D.) degree. The UTPA/UT Austin Cooperative Pharmacy Program is designed to facilitate access to the College of Pharmacy in Austin by providing opportunities to fulfill graduation requirements at UT Pan American. Students can be admitted into The University of Texas College of Pharmacy either through the UTPA Pharmacy Scholars Program or by application directly to The University of Texas at Austin after completion of the pre-pharmacy requirements. UTPA faculty members are available to assist students with either application.

The College of Pharmacy at UT Austin offers the Doctor of Pharmacy (Pharm.D.) degree as the sole entry-level degree. It is a professional doctoral program that is designed to prepare future researchers or practitioners who can provide patient-oriented pharmaceutical care in contemporary settings, including community practice, hospital environments and long-term care facilities, among others.

The professional curriculum is structured around an integrated approach to drug therapy management. The Pharm.D. program emphasizes an integrated and problem-based approach to disease management as the core of the didactic and laboratory program of study. The capstone of the Pharm.D. program is a series of seven, six-week rotations known as the internship.

Each internship course includes 40 to 50 hours per week of on-site experience supervised by practitioner faculty.

► 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 pharmacist. The program will strive to encourage the provision of pharmaceutical care by cultivation in our graduates' critical thinking skills and an appreciation for the need for lifelong 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 American Council of Pharmaceutical Education (ACPE), 311 West Superior Street, Suite 512, Chicago, Illinois 60610, accredits the College of Pharmacy at The University of Texas at Austin. Phone: (312) 664-3575 or (800)533-3606. Fax: (312) 664-4652. Only graduates of accredited programs are eligible for state licensure. Passing NAPLEX (North American Pharmacist Licensure Examination) and the Texas Pharmacy jurisprudence examination are required for state licensure.

◆ Course of Study

Pre-Pharmacy years at UTPA

Years 1 & 2: Coursework in communication, mathematics and the natural sciences
Professional Education in Pharmacy (Pharmacy School)

Years 3 & 4 at College of Pharmacy UT Austin

Year 3: A board foundation in physiology, pathology, pharmaceutical sciences and pharmacy administration.

Year 4: An interdisciplinary approach to disease and application to patients through case based learning.

Years 5 & 6 at UTPA and the Rio Grande Valley

Year 5: Advanced course in patient care.

Year 6: Calendar year consisting of 7 six-week experiential rotations at pharmacy practice sites around the Rio Grande Valley.

◆ Pre-Pharmacy Course Requirements

36 hours of Laboratory Sciences

BIOL 1401 or 1487-Honors

**Each one is 4 credit hours*

BIOL 1402 or 1488-Honors

BIOL 3401 Microbiology

BIOL 3413 Genetics

CHEM 1301 General Chemistry I and
1101 General Chemistry Lab I

CHEM 1302 General Chemistry II and
1102 General Chemistry lab II

CHEM 2302 Organic I and 2102-Lab

CHEM 2303 Organic II and 2103-Lab

PHYS 1401 General

7 hours of Mathematics

MATH 1401 Calculus

MATH 2330 Survey of Elementary
Statistics *or*

MATH 3337 Applied Statistics I

9 hours of English

ENG 1301 Composition *or* 1387-Honors

ENG 1302 Rhetoric *or* 1388-Honors

ENG 2300, 2303, 2305, 2307, 2387-honors *or*
2388-Honors

6 hours of Political Sciences

POLS 2313 *or* 2387-Honors

POLS 2314 *or* 2388-Honors

6 hours of History

HIST 2313 American Heritage I *or*
2387-Honors

HIST 2314 American Heritage II *or*
2388-Honors

6 hours of Electives

Choose from: Social and Behavioral Sciences *or*
Arts and Humanities

70 hours total

To be competitive, students should have a core grade point in English, math, social studies, science and foreign language of 85 percent (3.4 on a scale of 4.0). Students must take either the SAT or ACT. Either a combined verbal and math score of 1000 on the SAT or a composite ACT score of 20 is recommended.

◆ Requirements for Admission to the Cooperative Pharmacy Program:

To be eligible to be a pharmacy scholar, high school students must complete the following high school courses:

English (4 years)
Foreign language (2 years)
Math (3 years)
Science (3 years)
Social Studies (3 years)

To be competitive, students should have a core grade point in English, math, social studies, science and foreign language of 85 percent (3.4 on a scale of 4.0), with a minimum combined score verbal and math of 1000 on the SAT or a composite ACT score of 20.

◆ Application

Each applicant for admission must:

1. Submit transcripts for all high school and college work performed.
2. Submit a typed statement of interest.
3. Obtain three letters of recommendation. Forms will be provided by the program to the applicant.
4. Forward a finished and signed application.
5. Participate in a personal interview with members of the admission committee.
6. Complete a written essay on the day of the interview.

Students who have completed the required pre-pharmacy coursework at UTPA may apply for admission to the College of Pharmacy. In addition to the preceding requirements for application, these students must take the Pharmacy College Admission Test (PCAT).

COMMUNICATION SCIENCES & DISORDERS

**Dr. Teri Mata-Pistokache,
Interim Department Chair**

Health Sciences and Human Services West (HSHW)
Room 1.264

Telephone: 956/316-7040

Fax: 956/318-5238

E-mail: tmpistok@panam.edu

Graduate Faculty

Mata-Pistokache, Teri, *Associate Professor*

Meline, Timothy J., *Associate Professor*

Radford, Nola, *Associate Professor*

Wang, Kehching B., *Assistant Professor*

► Purpose

The Master of Arts in Communication Sciences and Disorders degree program is designed to prepare its graduates for the Clinical Fellowship Year (CFY), the Certificate of Clinical Competence in Speech-Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association (ASHA), a license for the State of Texas, and eventually independent clinical practice in the profession of speech-language pathology.

► Scope

The Master of Arts degree in Communication Sciences and Disorders is a clinical academic degree. The curriculum requires that students successfully complete all preparatory undergraduate prerequisites. The graduate curriculum includes extensive supervised clinical practice as well as coursework in each of the following academic 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, child and adult language, fluency and voice
- procedures for addressing the intervention needs of individuals with disorders of articulation and

phonology, child and adult language, fluency and voice

- 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 Admissions and Records 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 Communication Sciences and Disorders program. Only those applicants with clear admission status will be considered. Clear admission status is determined by the Graduate School (and defined on pages 19-20 of this catalog).

2. Submit all required applicable materials to the department's graduate admissions committee. Current requirements can be obtained by calling (956) 316-7040.

UTPA

Course No.	Equivalent Topic
COMD 2320	Voice and Phonetics
COMD 3315	Anatomy and Physiology of the Speech and Hearing Mechanism
COMD 3310	Normal Language Development
COMD 3330	Articulation Development and Disorders
COMD 3340	Audiology I
COMD 3330	Aural Rehabilitation
COMD 4360	Abnormal Language Development and Introduction to Clinical Management
COMD 4390	Diagnostic Procedures

◆ Degree Requirements

Required Academic Coursework **42 hours**

COMD 6310	Research in Communication Disorders
COMD 6320	Speech-Language and Hearing Science
COMD 6325	Childhood Language Disorders

	and 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 6360	Cranio-Facial Anomalies
COMD 6365	Language Assessment of Culturally and Linguistically Diverse Populations
COMD 6370	Seminar in Speech-Language Pathology (Dysphagia)
COMD 6375	Seminar in Audiology

Required Practicum

Full-time students must take COMD 6305 (Graduate Clinical Practicum) each fall and spring semester and in the summer. A minimum of one semester of COMD 6380 (Audiology Practicum) and a minimum of two semesters of COMD 6395 (External Practicum) are required. Per ASHA requirements, at least 350 clock hours of supervised clinical practice and 25 hours of clinical observation must be completed and documented in conjunction with the practicum courses.

Written and Oral Comprehensive Exams

Written and oral comprehensive exams are taken near the completion of academic coursework, and both exams must be passed. Written and oral comprehensive examinations are not required for students who successfully complete a graduate thesis.

Graduate Thesis Option

Students may elect a thesis option. Those who do must register for COMD 7300 during each semester of thesis work. Only three thesis credits may be counted toward graduation requirements. In addition, one graduate-level course requirement may be waived. 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 167.

NURSING

Dr. Carolina Huerta, *Department Chair*

Health Sciences and Human Services East (HSHE)
Room 2.192
Telephone: 956/381-3491
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E-mail: chuerta@panam.edu

Dr. Barbara Tucker, *MSN Coordinator*

Health Sciences and Human Services East (HSHE)
Room 2.108
Telephone: 956/316-7082
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Graduate Faculty

Huerta, Maria Carolina, *Professor*
Maville, Janice A., *Professor*
Tucker, Barbara A., *Professor*
Wilson, Bruce K., *Associate 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 MSN 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

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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 multi-disciplinary collaborator in the assessment, planning, implementation and evaluation of health care; and

10. Demonstrate preparation for continuing education in formal and informal programs of study.

The MSN program is accredited by the National League for Nursing (National League for Nursing Accreditation Commission, 350 Hudson Street, New York, NY 10014, 212/989-9393). It also has accreditation 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

The Department of Nursing has admission requirements that are in addition to the University requirements shown on page 15.

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 3.0 or above on a 4.0 scale in upper-division nursing and in any graduate courses.
4. GRE scores.
5. A basic statistics course.
6. A basic physical assessment course.
7. Three satisfactory academic and/or professional references.
8. Approval of the MSN Student Development Committee.
9. Immunization records showing freedom from active tuberculosis and immunity to hepatitis B (upon admission to the program).

In addition, the nurse practitioner applicant must have one year of post-baccalaureate nursing experience.

◆ 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-baccalaureate students who want to take courses, but are not working toward a degree. Non-degree students may enroll in selected courses by:

1. Submitting a Graduate Student Application for Admission Form to the Office of Admissions and Records, meeting deadlines for admission
2. Submitting a letter of application to the Department of Nursing
3. Submitting official transcripts to the Office of Admissions and Records verifying a bachelor's degree in nursing
4. Obtaining acceptance by the MSN 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 MSN Student Development Committee and apply to the graduate program. At the time the application is reviewed, the student must have provided an official transcript, 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 9 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 550 on the TOEFL. This score should be no more than two years old, but can be evaluated on an individual basis.
2. A course-by-course transcript evaluation by World Education Service (WES).
3. A license to practice nursing in the State of Texas obtained prior to admission according to Board of Nurse Examiners' rules and regulations.

◆ Requirements for MSN

The general requirements for the MSN are as follows:

1. A degree plan approved by the MSN Program Coordinator;
2. Satisfactory completion of all courses within five years of admission; *and*
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 6321	Advanced Adult Health I
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
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◆ 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	Health Promotion
NURS 6311	Rural Health Nursing
NURS 6612	Nurse Practitioner I
NURS 6613	Nurse Practitioner II
NURS 6247	Nurse Practitioner Role

Thesis Option		6 hours
NURS 7300	Thesis I (Proposal)	
NURS 7301	Thesis II	

Non-Thesis Option		3 hours
NURS 7302	Practice Intervention	

PROGRAM TOTAL		48-51 hours
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◆ 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
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PROGRAM TOTAL 48-51 Hours

◆ Course Descriptions

A listing of graduate courses offered by the nursing department can be found in the Course Descriptions section of this catalog beginning on page 209.

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REHABILITATIVE SERVICES PROGRAM

Dr. Bruce Reed, Program Coordinator

Health Sciences and Human Services West (HSHW)
Room 1.266A

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Graduate Faculty

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Newman, Jane, Assistant Professor
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► 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 Rehabilitative Services program 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 MS 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 MS 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 MS 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 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 Admissions and Records 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 will 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 9 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 of Science degree program is early May 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 degree program in Rehabilitation Counseling: (Send materials to the Graduate Program Coordinator, Rehabilitative Services Program, College of Health Sciences and Human Services, The University of Texas-Pan American, 1201 West University Drive, Edinburg, TX 78541-2999)

1. Submit copies of: a) all post-secondary transcripts and b) a completed application form for admission to the Master of Science degree program in Rehabilitation Counseling.

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.

◆ 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 Aspect of Disability
REHS 6350	Job Placement Theories and Methods
REHS 6360	Counseling Theories in Rehabilitation
REHS 6370	Techniques in Rehabilitation Counseling
REHS 6390	Practicum (100 hours)
REHS 7900	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
REHS 7303	Advanced Research Grant

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 MS 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 6 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 1835 Rohlwing Road, Suite E, Rolling Meadows, Illinois 60008, or call 847/394-2104.

The Texas Board of Examiners of Professional Counselors has been designated by the Texas Legislature as the licensing body for counselors in

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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 Rehabilitative Services can be found in the Course Descriptions section of this catalog beginning on page 216.

SOCIAL WORK

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Friedman, Bruce, *Associate Professor*

Ramirez, Noe, *Assistant Professor*

Villereal, Gary, *Associate Professor*

► General Overview

◆ Mission Statement

The Department of Social Work is committed to preparing entry-level generalist and advanced professional social workers to meet the needs of an international and multicultural community. The educational emphasis is on multicultural awareness, professional competence, ethical practice, knowledge building acquisition, and social services that promote equitable social and economic justice in a bi-national 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 needs of the population the program's graduates will serve, and to meet the requirements of the Council on Social

Work Education (CSWE) Curriculum Policy Statement.

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 seeks to implement its mission through educational and social services and programs provided by faculty and students to the Rio Grande Valley’s UT Pan American community.

◆ Goals and Objectives

1. To prepare students as competent, generalist social work practitioners.

Objective A: Students will demonstrate knowledge of and skill in practice with individuals, families, groups, organizations and communities.

Objective B: Students will be expected to apply concepts of diversity to their practice.

Objective C: Students will demonstrate self-awareness and apply social work values and principles to their practice.

2. To provide an environment that promotes evidence-based application of knowledge building.

Objective A: Students will be expected to apply scientific knowledge to their professional practice, using skills of assessment and evaluation.

Objective B: Faculty will use systematic program assessment to evaluate and develop program excellence.

Objective C: Faculty will demonstrate knowledge-building research and scholarship.

3. To promote lifelong professional engagement and achievement.

Objective A: Graduates will demonstrate participation and leadership in professional activities.

Objective B: Faculty will demonstrate participation and leadership in professional activities.

4. To prepare students for advanced practice with Latino families.

Objective A: Students will demonstrate knowledge of the Texas-Mexico border culture in relation to Latino families.

Objective B: Students will be expected to apply knowledge of the Texas-Mexico border culture to differential assessment and practice.

Objective C: Students will demonstrate knowledge of the Texas-Mexico border culture in relation to the supervision of practitioners who work with Latino families.

The department’s mission and the program objectives provide the rationale for the MSSW 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 and other procedures.

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 families, 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.

The graduates are expected to be able to articulate and manifest a liberal arts perspective, to serve disadvantaged, vulnerable and oppressed populations and to advocate for initiatives that address poverty, oppression, dependency, abuse, violence, and social and economic justice.

The graduates are expected to be able to understand and work with varied client family groups and systems, utilizing a generalist and family-focused ecosystem perspective, with an appreciation of systemic relationships between direct practice, social welfare policies and social service programs. They are expected to be competent in a professional evaluation of their practice, with an instrumental degree of self-awareness. They are expected to value the importance of research in practice, be able to apply appropriate research findings in their practice, and contribute meaningfully to research projects.

Thus, graduates of this program are expected to be able to 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. These

objectives and outcomes direct the specific objectives and content of the courses of study the department offers.

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 content of the master's program interrelate the missions of the University, College and the Department of Social Work. The University, College and Department strive to educate competent practitioners who are dedicated to serving this special community and who are committed to ethical, responsible standards of practice.

The faculties of the University, college and department help develop knowledge through scholarship and research that concern the problems and interests of the Hispanic/Latino poverty-stricken populations in this area, along with research instruction that helps students contribute to such knowledge. The department prepares social work practitioners able to serve this population, and to serve in the public and private social welfare systems.

◆ The MSSW Curriculum

In order to further the objectives stated above, the Department of Social Work has established the Master of Science in Social Work (MSSW) degree program. The MSSW is a 60-hour master's degree consisting of 30 hours of professional foundation courses and 30 hours of advanced professional social work courses.

The foundation curriculum consists of 3 hours of Professional Foundations, Introduction to Professional Social Work, 9 hours of Generalist Social Work Practice, 6 hours of Human Behavior and the Social Environment, 3 hours of Research Design and Analysis, 3 hours of Social Welfare Policy, and 6 hours of Field Education.

The advanced social work curriculum consists of 6 hours of Social Work Practice with Families, 3 hours of Social Work Supervision, Consultation and Administration, 3 hours of Practice and Program Evaluation, 3 hours of Social Work Practice with Latinos, 3 hours of Clinical Assessment, 3 hours of an elective, and 9 hours of Advanced Field Education.

◆ Curriculum Plan for MSSW Degree Program

Course No.	Cr. Hrs.	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 license issued by the state of Texas and for the Academy of Certified Social Workers designation granted by the National Association of Social Workers.

◆ A Developing Program

The MSSW degree program is a newly developed program of the Department of Social Work. The MSSW program is recognized as being "In Candidacy Status" by the Commission on Accreditation of the Council on

Social Work Education. This means that the program is recognized as being in the process of working toward full accreditation status.

Students should be aware that degrees awarded by the program will only be recognized as being “accredited” after the awarding of full accreditation status. Students should also be aware that, while the program is working toward full accreditation status with the Council on Social Work Education (CSWE), courses and course content may change in order to comply with accreditation guidelines and standards.

If substantial course changes are necessitated, students may be required to repeat one or more courses.

◆ Admission Requirements

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 3.0 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; and
5. successful completion of an undergraduate course in statistics within three years of admission.

NOTE: Students whose undergraduate degree is from a social work program accredited by the Council on Social Work Education may request a waiver of the foundation courses.

Conditional Admission

Conditional admission to the Social Work program may be granted to applicants who have GPAs less than 3.0 only if they:

1. qualify for admission to the University for graduate study, and
2. submit a written request to be considered for conditional admission based on having met at least two of the following criteria:
 - a. complete and document 9 hours of academic graduate coursework with a GPA of 3.0 or higher from an accredited university;
 - b. show evidence of outstanding paid or volunteer experience in human service agencies;
 - c. provide evidence of successful grant writing

for human service organizations;

d. provide Graduate Record Examination (GRE) scores that indicate an ability to do graduate-level work; *and*

e. hold a bachelor’s degree-level social work license from any state or territory within the United States.

Conditional admission will become clear admission if the first semester of graduate work is completed with a GPA of at least 3.0.

◆ Advanced Standing

Applicants who possess a Bachelor of Social Work degree from a program accredited by the 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: 3 hours of Professional Foundation, 6 hours of Social Work Practice with Families, 3 hours of Supervision, Consultation and Administration, 3 hours of Practice and Program Evaluation, 3 hours of Social Work Practice with Latinos, 3 hours of Advanced Clinical Assessment, 3 hours of an elective, and 9 hours of Advanced Field Education. Applicants who wish to be considered for advanced standing must meet the following admissions requirements:

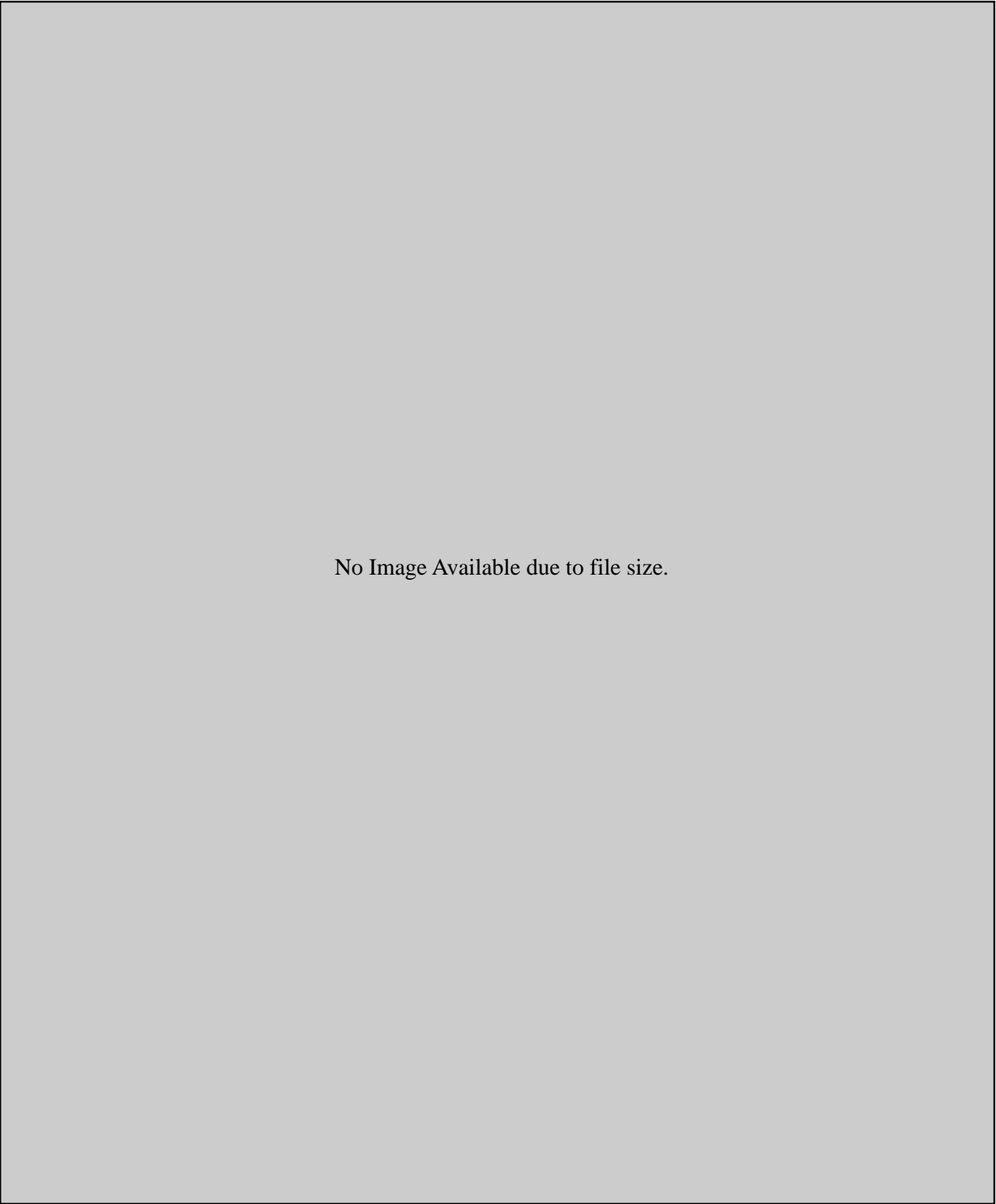
1. be fully admitted into graduate study at UT Pan American under the specified requirements for admission;
2. possess a GPA of 3.0 or higher on a 4.0 scale for the last 60 hours of undergraduate coursework;
3. possess a GPA of 3.0 or higher on a 4.0 scale for their social work coursework;
4. present documentation of course syllabi and outlines for courses petitioned for waiver; *and*
5. submit an acceptable writing sample.

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 MSSW 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 220.



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, Mathematics, Mechanical Engineering, and Physics and Geology.

New state-of-the-art facilities house the departments of Biology, Chemistry, Engineering, Mathematics and Computer Science.

► Academic Programs

The College of Science and Engineering offers the Master of Science degree in Biology, Computer Science, Electrical Engineering, 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 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. Secondary 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 pre-medical students. Chemistry also has a plan of study for pre-pharmacy students.

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Dr. Michael P. Eastman, Dean

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On the Web: <http://www.panam.edu/colleges/cose.cfm>

School of Engineering and Computer Science

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► **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 provide advice on program development, evaluation of placement processes for graduates and general feedback on the preparation of 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 new Engineering Building that contains more than \$7 million of teaching and research equipment. More than 63 percent of the funded research in the College of Science and Engineering resides in the School of Engineering and Computer Science. The enrollment of majors in the school is about 1,000, 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 page 160.

BIOLOGY

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Faulkes, Zen, *Assistant Professor*
Gunn, Scott J., *Professor*
Henry, Brad, *Associate Professor*
Judd, Frank W., *Professor*
Kuang, Anxiu, *Assistant Professor*
Lonard, Robert I., *Professor*
Materon, Luis A., *Assistant Professor*
Murray, K. Daniel, *Assistant Professor*
Summy, Kenneth R., *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 Master of Science degree with a major in biology can include 6 to 9 hours of work in an approved minor or support area.

◆ Admission Requirements

1. The applicant to the master's program in biology must be accepted for graduate study at The University of Texas-Pan American.

2. Admission to the graduate program with a major in biology requires a minimum of 24 hours of undergraduate biology with at least 12 hours at the advanced level. As undergraduate preparation, each student should have completed 3 to 4 hours in each of the following categories: Evolution or Genetics, Cell Biology or General Microbiology, Organismal or Environmental Biology, and Mammalian or Plant Physiology. Entering graduate students who have deficiencies in one or more areas must remove them the first time that the course(s) is offered.

3. Full-time graduate students who do not meet the above requirements may take up to 9 hours of leveling work while taking a limited number of graduate hours.

4. A minimum grade point average of 3.0 in upper-level undergraduate biology courses (based upon a 4.0 system) is required.

◆ Degree Requirements

◆ Enrollment While Completing Leveling Work

The following courses may be taken while enrolled in leveling work:

Biology 6365
Biology 6305
Biology 6101 (3-hour limit)

◆ General Degree Requirements

1. Preliminary Oral Examination. The purpose of the graduate program is to provide advanced training in biology. It is expected that all students entering the program will possess a basic understanding of general concepts in biology. As soon as possible, but no later than the end of the second semester of graduate work, the student's Graduate Committee will administer a Preliminary Oral Examination to assess the student's understanding of general biological principles. The student's performance on this exam will help the Graduate Committee in formulating recommendations for the degree plan and for removing deficiencies. If deficiencies or weaknesses in basic biology are apparent, the Graduate Committee will recommend that the student take appropriate undergraduate courses, or engage in self-study in the areas of

deficiency. These courses and/or studies must be completed before the comprehensive oral examination (and thesis defense) is taken.

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 the 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.** All graduate students in biology are expected to maintain a minimum GPA of 3.0 throughout their MS degree program. Any student whose GPA falls below 3.0 will be placed on probation. To remain in the graduate program, the student must restore his or her GPA to 3.0 by the end of the next semester (fall or spring).

• **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 chairman of his or her Graduate Committee and two other faculty members chosen in conference with the major professor and the chair of the department. This committee will approve a plan of study for the student that must be approved by, and a copy filed with, the department chair and the dean of the College of Science and Engineering. The major professor and student should each retain a copy. 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 27 or 30 hours of biological sciences and may include in his or her program a maximum of 6 to 9 hours in a related field for a total of 36 hours.

■ **Master of Science Degree Thesis Option**

Required Courses		15 hours
BIOL 6101	Biology Graduate Seminar (must be repeated three times)	
BIOL 6305	Biometry	
BIOL 6365	Biological Research Problems	
BIOL 7300	Thesis	
BIOL 7301	Thesis	

Electives		15 hours
<i>Select 15 hours from the following:</i>		
BIOL 5304	Advanced Ichthyology	

BIOL 5307	Parasite Relationships
BIOL 5309	Advanced Herpetology
BIOL 5311	Ecological Physiology
BIOL 5312	Advanced Ornithology
BIOL 5314	Advanced Plant Systematics
BIOL 5315	Advanced Entomology
BIOL 5316	Advanced Environmental Toxicology
BIOL 5344	Advanced Mammalogy
BIOL 5346	Advanced Aquatic Entomology
BIOL 5345	Advanced Plant Physiology
BIOL 5403	Advanced Remote Sensing Technology
BIOL 5408	Advanced Plant Pathology
BIOL 5410	Marine Plant Science
BIOL 5452	Advanced Marine Zoology
BIOL 6302	Topics in Marine Biology
BIOL 6303	Advanced Ecology
BIOL 6304	Systematic Zoology
BIOL 6313	Cell Biology and Physiology
BIOL 6314	Aquatic Entomology
BIOL 6316	Molecular Genetics
BIOL 6319	Scientism

TOTAL **30 hours**

■ Master of Science Degree Non-Thesis

Required courses **9 hours**

BIOL 6101	Biology Graduate Seminar (must be repeated three times)
BIOL 6305	Biometry
BIOL 6365	Graduate Biological Research Problems

Electives in major areas **18-21 hours**

Select from the following:

BIOL 5304	Advanced Ichthyology
BIOL 5307	Parasite Relationships
BIOL 5309	Advanced Herpetology
BIOL 5311	Ecological Physiology
BIOL 5312	Advanced Ornithology
BIOL 5314	Advanced Plant Systematics
BIOL 5315	Advanced Entomology
BIOL 5316	Advanced Environmental Toxicology
BIOL 5344	Advanced Mammalogy
BIOL 5345	Advanced Plant Physiology
BIOL 5346	Advanced Aquatic Entomology
BIOL 5403	Advanced Remote Sensing Technology
BIOL 5408	Advanced Plant Pathology

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BIOL 5410	Marine Plant Science
BIOL 5452	Advanced Marine Zoology
BIOL 6302	Topics in Marine Biology
BIOL 6303	Advanced Ecology
BIOL 6313	Cell Biology and Physiology
BIOL 6316	Molecular Genetics
BIOL 6319	Scientism

Approved minor or support area **6-9 hours**

TOTAL **36 hours**

◆ 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 164.

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CHEMISTRY

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Villarreal, John, *Professor*

The Department of Chemistry offers one graduate course, CHEM 5301 Advanced Biochemistry, in support of the master's degree program in the Department of Biology. See page 167 for a course description.

COMPUTER SCIENCE

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Graduate Faculty

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Brazier, Pearl W.,
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Assistant Professor, Theoretical Computer Science
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Professor, Interactive Systems
Lawrence-Fowler, Wendy A.,
Professor, Multimedia Systems

► **Introduction**

The Department of Computer Science offers two degrees: Master of Science in Computer Science and Master of Science in Information Technology. The degrees prepare students for positions in industry and education, enhance skills for the practicing professional, and supply a foundation for study at the doctoral level. Students with a bachelor's degree in any field may enter either program. The programs provide a broad foundation of study in computer science, as well as offer in-depth study in the areas of networks and distributed computing, artificial intelligence and cognitive science, multimedia, and interactive systems. For both degrees, a core of computer science courses is required together with additional prescribed elective courses. Other computer science electives and graduate courses in other departments may also be completed. The program offers both thesis and project options for the Master of Science in Computer Science. More information is available at www.cs.panam.edu

► Admissions Requirements

1. 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. Three letters of recommendation from individuals who can attest to the applicant's academic potential.
5. 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

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 first year of enrollment in graduate program.

Computer Science Prescribed Electives Courses 12 or more hours

CSCI 6333	Advanced Database Design and Implementation
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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 6362	Interactive Systems
CSCI 6364	Network Information Systems
CSCI 6370	Topics in Computer Science

Other Computer Science electives courses and courses in other departments 6 hours or less

CSCI 6300	Foundations of Systems
CSCI 6301	Foundations of Algorithms and Programming Languages
CSCI 6381	Independent Research and Study

Required Computer Science problems, project and thesis courses (6 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 7 semester hours of required computer science lecture and seminar courses, 14 or more semester hours of prescribed elective courses, and a master's project. Students complete up to 12 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 6314	E-Commerce Systems and Implementation
CSCI 6300	Foundations of Systems in Computer Science
CSCI 6301	Foundation of Algorithms and Programming Languages in Computer Science
CSCI 6340	Advanced Software Engineering
CSCI 6345	Advanced Computer Networks
CSCI 6362	Interactive Systems
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 12 hours or less

Students complete up to 12 hours of courses relevant to information technology, approved by the graduate director, in computer science or other departments.

Required Computer Science problems and project courses 6 hours

CSCI 6380	Problems in Computer Science
CSCI 6390	Master's Project

◆ **Course Descriptions**

A listing of graduate courses offered by the Department of Computer Science can be found in the Course Descriptions section of this catalog beginning on page 173.

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Ojha, Anand, *Assistant Professor, Computer Architecture, Embedded Systems Designs and Tests*
Son, Jae Sok, *Assistant Professor, Signal and Image Processing, Radar*
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Manufacturing Engineering

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Mechanical Engineering

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 Fuentes, Arturo, *Assistant Professor, Dynamic Response Analysis, Engineering Education*
 Jones, Robert E., *Associate Professor, Polymers and Composites, Fracture Mechanics, Materials Testing*
 Lozano, Karen, *Assistant Professor, Polymer Processing, Composite Materials, Nano-Fiber/Tube, Reinforced Composites*
 Mahdi, Hashim, *Associate Professor, Thermal/Fluid*
 Qubbaj, Ala, *Assistant Professor, Thermal Systems, Energy, Combustion*
 Smith, Monty, *Assistant Professor, Dynamics and Control*

► 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 or practicum, 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, a non-thesis option and a project with report 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 should be publishable in the technical literature and represent some meaningful extension of state of 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 major 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 may each require 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)

A. Required courses - 9 hours selected from the following:

- ELEE 6300 Signals and Systems
- ELEE 6320 Semiconductor Devices
- ELEE 6330 Linear Dynamic Systems
- ELEE 6345 Digital Signal Processing
- ELEE 6335 Advanced Computer Architecture
- ELEE 6374 Advanced Digital System Design

B. 6 hours of thesis:

- ELEE 7300 Master's Thesis I
- ELEE 7301 Master's Thesis II

C. A minimum of 15 hours of graduate courses

selected with the consent of the student's thesis advisor. Nine hours or more must be in electrical engineering, and up to six hours may be selected from other graduate programs within the College of Science and Engineering.

◆ General Requirements for Project with Report Option

1. The project with report option for the master's degree requires a minimum of 36 hours of graduate work, including six project credits identified as ELEE 6390.

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 projects with several faculty members in order to choose a topic that interests him/her and a faculty member who is willing to sponsor his/her project. A final plan of study must be prepared and approved by the sponsoring professor, the department chair and dean no later than the second semester of work.

3. Each student should submit a proposal to the sponsoring professor and a copy to the department that describes the project in sufficient detail. The

proposal should be submitted before the student signs up for his/her first project course. Students in this option should bear in mind that the master's project should bring to them additional learning experience and be of some value to the technical field.

4. Each student is required to present a seminar on the project topic. Notice of the oral presentation of the master's project should be given at least one week in advance to all faculty and students in the department. A draft copy of the master's project should be available to the sponsoring professor at least one week before the oral presentation. Students are expected to make changes to the final copy of their master's project based on feedback obtained from the oral presentation. Students should expect to be asked fundamental questions during the oral presentation. Students will be evaluated based on the work accomplished in their project and their verbal and writing communication skills.

5. Students are responsible for preparing and copying the final project report. One copy must be provided to the sponsoring professor and one copy to the department.

6. 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.

7. 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.

■ Report Option (36 hours total)

A. Required courses - 9 hours selected from the following:

ELEE 6300	Signals and Systems
ELEE 6320	Semiconductor Devices
ELEE 6330	Linear Dynamic Systems
ELEE 6345	Digital Signal Processing
ELEE 6335	Advanced Computer Architecture
ELEE 6374	Advanced Digital System Design

B. 6 hours of project report:

ELEE 6390 Master's Project
(Course must be taken twice.)

C. A minimum of 21 hours of additional graduate courses selected with the consent of the student's thesis advisor. Fifteen hours or more must be in electrical engineering, and up to six hours may be selected from other graduate programs within the College of Science and Engineering.

◆ 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

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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)**

A. Required Courses - 9 hours selected from the following:

- ELEE 6300 Signals and Systems
- ELEE 6320 Semiconductor Devices

- ELEE 6330 Linear Dynamic Systems
- ELEE 6345 Digital Signal Processing
- ELEE 6335 Advanced Computer Architecture
- ELEE 6374 Advanced Digital System Design

B. A total of 27 hours of additional graduate courses selected with the consent of the graduate program director. Twenty-one hours or more must be in electrical engineering, and up to six hours may be selected from other graduate programs within the College of Science and Engineering.

◆ **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 184.

■ Master of Science in Engineering: Manufacturing Engineering

► Graduate Program Overview

The University of Texas-Pan American Department of Manufacturing (Mfg.) Engineering offers a graduate program in manufacturing engineering leading to a Master of Science in Engineering. The department offers thesis, report or practicum 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) engineering practicum with a report, and 3) coursework only. The thesis option requires 24 hours of coursework plus 6 hours for the thesis. The report option requires 30 hours of coursework and 6 hours for the engineering practicum. The coursework only option requires 36 hours of courses. There is a requirement of 18 hours of coursework for options 1 and 2 that should be from manufacturing engineering and 24 hours of manufacturing engineering courses for option 3. The remaining 6 hours of coursework for the thesis 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).

For the engineering practicum with a report option or the coursework-only option, the remaining 12 hours of coursework may be from mechanical or electrical engineering, business, math or computer science.

Students shall make an oral presentation on the thesis or the report or on 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 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 engineering practicum, enhancing opportunities for jobs. The report option also gives students an opportunity to work on an industrial problem for two semesters (3 hours each).

The coursework-only option is designed to give technical depth in the manufacturing disciplines while allowing the breadth by 12 hours of coursework from outside the manufacturing 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 |
| (3 hours from each area; see list below) | |
| b) Elective courses prescribed | None |
| c) Courses elected by students | 15 hours |
| (6 hours from business, mechanical or electrical engineering, | |

computer science, or mathematics chosen with the consent of the student's GFAC)

d) Thesis 6 hours

Engineering Practicum with Report Option (36 hours)

a) Courses required of all students 9 hours
(3 hours from each area; see list below)

b) Elective courses prescribed None

c) Courses elected by students 21 hours
(12 hours from business, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the student's GFAC)

d) Practicum with Report 6 hours

Coursework Only Option (36 hours)

a) Courses required of all students 9 hours
(3 hours from each of 3 areas listed below)

b) Elective courses prescribed None

c) Courses elected by students 12 hours
(12 hours from business, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the student's GFAC)

d) Courses from Mfg. Engineering 15 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
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 15-21 hours depending on the option (thesis or engineering practicum with a report) 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 6350 Flexible Integrated Manufacturing
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 engineering practicum with a report. Topics in Manufacturing Engineering (MANE 6399) may be taken as part of the

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15-21 hours of coursework required for graduation.

Engineering Practicum/Thesis/Topics in Manufacturing Engineering

MANE 6399	Topics in Manufacturing Engineering (may be repeated for credit when topic changes)
MANE 6190	Engineering Project
MANE 6290	Engineering Project
MANE 6390	Engineering Project
MANE 7300	Thesis
MANE 7301	Thesis

◆ Course Descriptions

A listing of graduate course offerings in manufacturing engineering can be found in the Course Descriptions beginning on page 201.

■ Master of Science in Engineering: Mechanical Engineering

The Department of Mechanical Engineering offers practicing engineers an opportunity to gain a greater practical and theoretical basis of knowledge, as well as theoretical depth that can serve as a foundation for doctoral studies. Students may choose from a broad variety of courses with emphases in areas such as design, robotics, dynamics and vibrations, materials, fluid dynamics, and heat transfer.

◆ 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.

(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 9 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 6 hours of thesis, selected as follows:

A. MECE 6310 Intermediate
Engineering Analysis (3 hours)

B. 6 hours of thesis:

MECE 7300 Master's Thesis I
MECE 7301 Master's Thesis II

C. 21 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. 6 hours of project report:

MECE 6398 Master's Report
(may be repeated
once for credit)

C. 27 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. 33 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 206.

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MATHEMATICS

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Debnath, Lokenath, *Professor and Department Chair*
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Heller, William, *Associate Professor*
Knobel, Roger, *Associate Professor*
Paredes, Miguel, *Professor*
Ramirez, Olga M., *Professor*
Taylor, Monty B., *Professor*
Villalobos, Maria Cristina, *Assistant Professor*
Von Kuster, Lee, *Visiting Professor*
Watkins, William T., *Professor*

► Graduate Program

The Department of Mathematics offers a 36-hour non-thesis program leading to a Master of Science in Mathematics. This graduate program offers concentrations in Mathematics Teaching and Mathematical Sciences. An 18-hour core is required of all students; additionally, students must complete 18 hours in a concentration area.

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.

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◆ 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

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

18 hours

Designated Electives

18 hours

Mathematical Sciences Concentration

Select four courses from the following:

MATH 6360	Differential Equations
MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6364	Statistical Methods
MATH 6370	Topology
MATH 6388	Discrete Mathematics

Select an additional 6 hours of approved electives.

Mathematics Teaching Concentration

The following courses are required:

MATH 6308	Algebraic Concepts
MATH 6310	Mathematics Teaching
MATH 6312	Geometric Concepts
MATH 6390	Mathematics Seminar

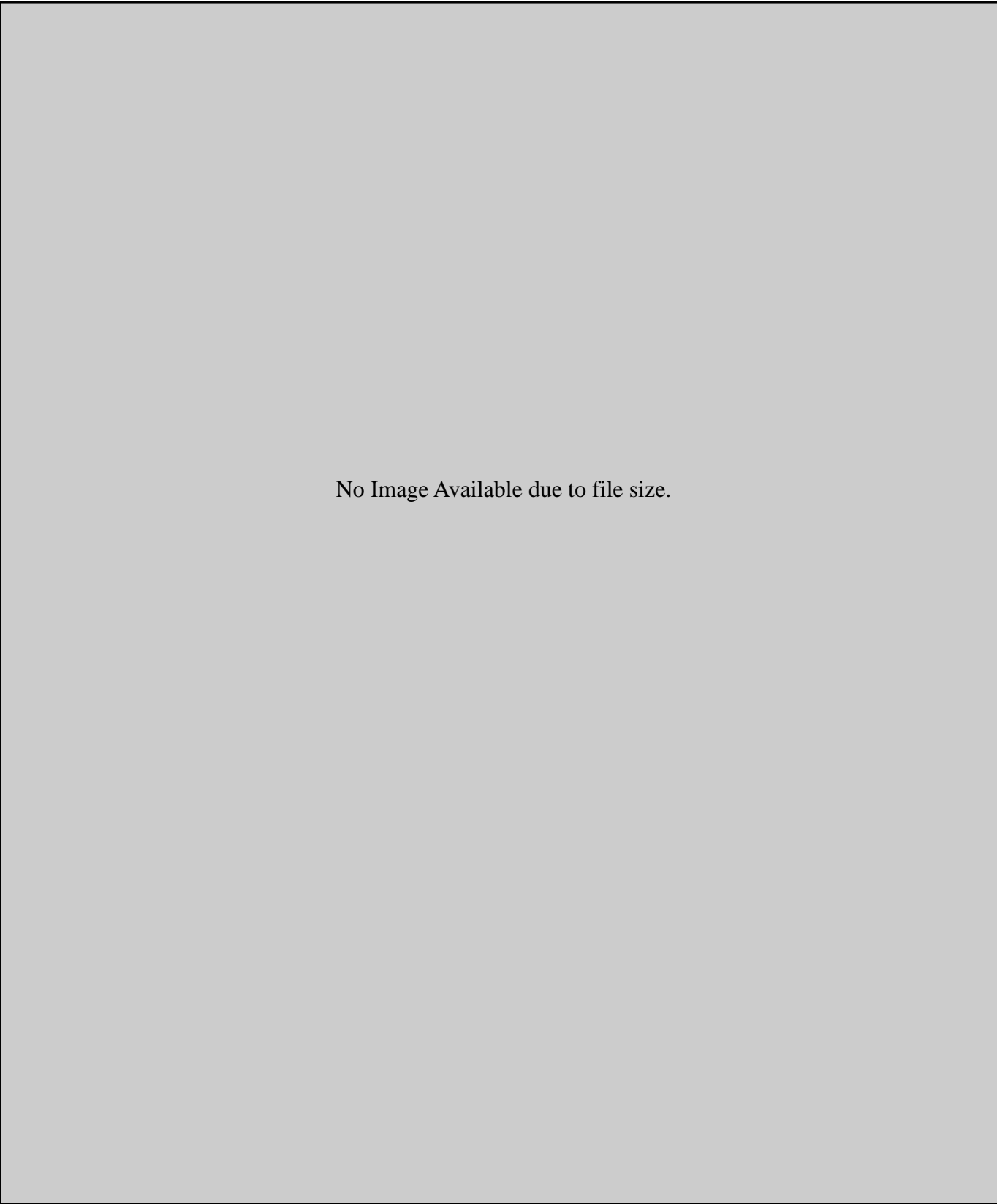
Select an additional 6 hours of approved electives.

Comprehensive Examination

All candidates for the Master of Science in Mathematics must pass a comprehensive examination as part of the degree requirements.

◆ 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 204.



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, Political Science, Psychology and Sociology; the Bachelor of Science in Psychology; and the Bachelor of Science in Criminal Justice.

Students may minor in anthropology, criminal justice, military science, political science, psychology or sociology.

Additionally, the Department of Military Science provides Army Reserve Officers' Training Corps training that can lead to commissioning in the Army, Army Reserve or National Guard.

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CRIMINAL JUSTICE

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Graduate Faculty

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Cohen, Nigel, *Assistant Professor*
Dantzker, M.L. *Associate Professor*
Dearth, Daniel K., *Associate Professor*
Ethridge, Philip, *Associate Professor*
Resendez, Rosalva, *Assistant Professor*

Cooperative Program Faculty

The University of Texas at Brownsville
Brown, Ben, *Assistant Professor*
Ritter, Susan, *Associate Professor, Department Chair*
Wilkinson, Bill, *Professor*

► Overview

The Master of Science (MSCJ) degree 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.

The MS degree in Criminal Justice is conducted in cooperation with The University of Texas at Brownsville (UTB), coordinated by a Graduate Program Committee and utilizes faculty, courses and library and other institutional resources from both institutions. The degree is granted by The University of Texas-Pan American.

◆ 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, 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 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.

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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	Statistical Methods in Criminal Justice
CRIJ 6307	Theory, Techniques, Methods, and Applications

Thesis or Applied Project Option

CRIJ 7301, 7302	Thesis
CRIJ 7303, 7304	Applied Project

Electives

Students will take from 3 to 15 semester hours from the following courses, depending on whether or not they take the Thesis, Applied Project or Additional Coursework Options:

CRIJ 6308	Juvenile Justice System
CRIJ 6309	Issues in Corrections
CRIJ 6310	Issues in Policing
CRIJ 6311	Special Topics in Criminal Justice (may be repeated once for credit if new topic)
CRIJ 6312	Independent Research and Study (may be repeated once for credit)

Other Electives

A maximum of 6 hours of graduate courses may be taken from related disciplines. Courses must have prior approval of the graduate program director.

◆ 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 172.

POLITICAL SCIENCE

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Graduate Faculty

Bokina, John, *Professor*
 Hinojosa, Jose R., *Associate Professor*
 Polinard, J. L., *Professor*
 Tschoepe, Gary, *Associate Professor*
 Turk, William, *Assistant Professor*
 Wenzel, James, *Assistant Professor*
 Wrinkle, Robert, *Professor*

■ Master of Public Administration (MPA)

◆ Graduate Program

The Department of Political Science 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 15 of this catalog).

◆ Degree Requirements

The Master of Public Administration (MPA) graduate 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

If a student does not have an academic background in public administration or political science, the student 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 3 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 and Policy 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.

The following four courses are suggested for the 12 hours of designated electives or specialization:

- PUBA 6304 Intergovernmental Relations
- PUBA 6311 The Formulation of Public Policy
- PUBA 6320 Public Finance Administration

PUBA 6342 Bureaucracy and Organizational Theory

Free Electives

No free electives are advisable.

Other Courses

Students who do not have work experience in public administration will be required to complete a 3-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 (6 hours), or an Applied Research Grant Project, PUBA 7302-7303 (6 hours). Each student must successfully complete either the thesis or the applied research grant project by defending it publicly with the acceptance of the supervisory instructor and two additional reviewers.

Final Requirements

After a student has successfully completed the 39 hours, he or she becomes a candidate for the Master of Public Administration (MPA) degree and must successfully complete an oral and written comprehensive examination. The final comprehensive examination will be administered by 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 (6) additional hours of graduate courses as approved and pass a written comprehensive examination.

◆ Course Descriptions

A listing of graduate courses offered by the Department of Political Science for the Master of Public Administration degree can be found in the Course Descriptions section of this catalog beginning on page 215.

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PSYCHOLOGY & ANTHROPOLOGY

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Graduate Faculty

Psychology

Aldridge, James W., Jr., *Professor*

Cain, Roy E., *Associate Professor*

Cardeña, Etzel, *Associate Professor*

Eisenman, Russell, *Assistant Professor*

James-Aldridge, Valerie, *Associate Professor*

Jou, Jerwen, *Professor*

Kendrick, Sherrill, *Assistant Professor*

Montgomery, Gary T., *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, and (3) Experimental Psychology. 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. Official transcripts with a 3.0 GPA on a 4.0 scale for the last 60 hours completed and in psychology coursework.
 4. GRE scores.
 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.
- 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 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 21 hours

PSY 6305	Advanced Studies in Psychopathology
PSY 6311	Advanced Studies in Personality Theory
PSY 6320	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 <i>and select one:</i>
PSY 6354	Individual Psychotherapy
PSY 6356	Group Psychotherapy

C. Supervised Clinical Practice Courses 15 hours

PSY 6364	Clinical Practicum I
PSY 6366	Clinical Practicum II
PSY 6368	Internship (480 hours)
PSY 7370	Thesis I
PSY 7372	Thesis II

Comprehensive Examination

Individuals are required to satisfactorily complete a written comprehensive examination as a part of the degree requirements.

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	Perspectives in Physiological Psychology
PSY 6325	Theoretical Issues in Learning
PSY 6332	Research Design
PSY 6336	Advanced Psychological Measurement
PSY 6363	Professional & Ethical Issues
PSY 6340	Multicultural Mental Health

B. Clinical Applications 9 hours

PSY 6352	Personality Assessment
PSY 6356	Group Psychotherapy
PSY 6354	Individual Psychotherapy

C. Designated Electives 6 hours

Select 2 of the following courses:

PSY 6315	Advanced Behavioral Management
PSY 6358	Substance Abuse Treatment
PSY 6362	Psychopharmacology
PSY 6348	Biofeedback and Self Regulation
PSY 6330	Advanced Child Development
EDPSY 6393	Marriage & Family Therapy
EDPSY 6366	Lifestyle & Career Development

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
ED 6367	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 completion of comprehensive examination as part of graduation requirements.

◆ Course Descriptions

A listing of psychology graduate courses offered by the Department of Psychology and Anthropology can be found in the Course Descriptions section of this catalog on page 212.

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► Anthropology

Web site: <http://www.panam.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, or
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:

■ Non-Thesis Option

18 hours in Anthropology (concentration area)
9 hours in Discipline Two
9 hours in Discipline Three

Required course:

ANTH 6345 Anthropological Method & Theory

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 162.

SOCIOLOGY

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Raajpoot, Uzzer A., *Associate Professor*

Richardson, D. Chad, *Professor*

Mission and Goals

► Statement of the Department of Sociology Graduate Program

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 skills to be effective administrators in a variety of social service settings, to be well-trained teachers at the community college level, and to succeed in doctoral programs in sociology if they choose to become teachers at the university level.

In order to accomplish our mission, our faculty engages in teaching, research and professional service, and we offer students the ability to gain their own research and classroom teaching experience. Our mission is consistent with and based on that of The University of Texas-Pan American's mission of "pursuing high standards of achievement in instruction, student performance, research, scholarly

accomplishment, and professional service" and "reflecting and responding to the international, multicultural, and multilingual character of the Pan American community."

The graduate program of the Department of Sociology at The University of Texas-Pan American supports the following goals:

- provide quality academic programs grounded in the liberal arts that cultivate active learning, critical thinking, problem solving and interdisciplinary perspectives;
- recruit, retain and develop highly qualified faculty by providing an environment that promotes excellence in teaching, research, service and student success;
- facilitate excellence in scholarship and research for the enhancement of knowledge that can be shared with the public through presentation and publication;
- encourage and support ongoing professional, university, and community service activities by faculty and students that enhance the quality of life of a multicultural diverse learning community;
- provide effective student recruitment, development, retention and placement programs designed to promote and serve a diverse student population;
- develop and coordinate an ongoing planning, evaluation and dissemination process designed to ensure academic excellence;
- identify, increase availability of and ensure appropriate utilization of resources that support academic programs, faculty, staff and students;
- provide academic leadership for the College of Social and Behavioral Sciences.

◆ General Overview

The Department of Sociology offers the Master of Science degree in Sociology. In addition, the department supports other graduate programs through several key graduate courses.

Candidates for the master's degree may choose a general sociology focus, a concentration on regional studies (including Mexican-American society and border and inter-American issues) or a concentration in health and aging (including such topics as Hispanic aging, health-care systems and research methods in health and aging).

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◆ Departmental Requirements

• Admission

To be admitted into the sociology master's program, applicants must be admitted to the University for graduate study (see page 15 of this catalog) and meet the following requirements specific to the sociology master's program:

1. Have at least 18 undergraduate hours in sociology, including the core areas of theory, methods and statistics; if these prerequisites have not been met, the candidate may be accepted provisionally and must remove any deficiency during the first two semesters of graduate study.
2. Be recommended by the Graduate Committee of the sociology faculty.
3. Have an undergraduate grade point average (GPA) of 3.0 or more on a 4.0 scale.
4. GRE scores.

When deficiencies in any of these areas exist, provisional acceptance may be granted when the candidate can provide other evidence acceptable to the Graduate Committee of adequate preparation for the program.

• Degree Requirements

To receive the Master of Science in Sociology, a candidate must complete a total of 36 hours of graduate study, including 9 hours of core sociology requirements and 6 hours of either thesis or independent research (the latter option requires independent research resulting in a research project, together with one or more faculty-approved articles reporting the research submitted to refereed

sociological journals).

Following the completion of these requirements, the student must successfully complete written comprehensive examinations administered by the graduate program coordinator.

Core Courses	9 hours
SOCI 6300	Advanced Statistics
SOCI 6301	Advanced Sociological Theory
SOCI 6302	Advanced Research Methods

Designated Electives	15 hours
<i>Select 15 hours of graduate courses in sociology.</i>	

Other Electives	6 hours
<i>Select 6 hours of approved graduate electives from other disciplines.</i>	

Research/Thesis Requirement	6 hours
<i>Complete one of the following sequences:</i>	
SOCI 7300, SOCI 7301	Thesis or
SOCI 7302, SOCI 7303	Independent Research

Other Requirements	
Completion of written comprehensive examinations administered by the graduate program coordinator.	

TOTAL	36 hours
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◆ Course Descriptions

A listing of graduate courses offered by the Department of Sociology can be found in the Course Descriptions section of this catalog beginning on page 218.

Graduate COURSE DESCRIPTIONS

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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 37.

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	162
ACCT	Accounting	Accounting and Business Law	162
ANTH	Anthropology	Psychology and Anthropology	162
ART	Art	Art	163
BADM	Business Administration	Doctoral Program in Business Administration	164
BIOL	Biology	Biology	164
BLAW	Business Law	Accounting and Business Law	167
CHEM	Chemistry	Chemistry	167
COMD	Communication Disorders	Communication Sciences and Disorders	167
COMM	Communication	Communication	169
CRIJ	Criminal Justice	Criminal Justice	172
CSCI	Computer Science	Computer Science	173
ECO	Economics	Economics, Finance and General Business	176
ED	Education	Educational Psychology	176
EDCI	Education: Curriculum and Instruction	Curriculum and Instruction	176
EDEC	Education: Early Childhood	Curriculum and Instruction	179
EDUL	Educational Leadership	School Administration and Supervision	180
ELEE	Electrical Engineering	Engineering	184
ENG	English	English	186
EPSY	Educational Psychology	Educational Psychology	188
FINA	Finance	Economics, Finance and General Business	196
HIST	History	History and Philosophy	196
INTB	International Business	Management, Marketing and International Business	197
ISQM	Information Systems & Quantitative Methods	Computer Information Systems and Quantitative Methods	198
KIN	Kinesiology	Health and Kinesiology	199
MANA	Management	Management, Marketing and International Business	200
MANE	Manufacturing Engineering	Engineering	201
MARK	Marketing	Management, Marketing and International Business	203
MATH	Mathematics	Mathematics	204
MECE	Mechanical Engineering	Engineering	206
MIS	Management Information Systems	Computer Information Systems and Quantitative Methods	207
MUS	Music	Music	208
NURS	Nursing	Nursing	209
POLS	Political Science	Political Science	212
PSY	Psychology	Psychology and Anthropology	212
PUBA	Public Administration	Political Science	215
QUMT	Quantitative Methods	Computer Information Systems and Quantitative Methods	216
REHS	Rehabilitation Counseling	Rehabilitative Services	216
SCIE	Interdisciplinary Science	College of Science and Engineering	218
SOCI	Sociology	Sociology	219
SOCW	Social Work	Social Work	220
SPAN	Spanish	Modern Languages and Literature	223

Accounting

ACC 6301 Principles of Accounting [3-0]

As Scheduled

An intensive examination of financial and managerial accounting theory and procedures and their application in the generation of data for integrated financial and managerial accounting information systems. Topics include an overview of the accounting cycle, analysis of financial statements, income determination and inventory valuation cost allocation, and interpretation of financial information for managerial decision-making and control purposes. *Prerequisite:* Admission to the MBA Program.

ACC 6320 Financial and Managerial Accounting [3-0]

Fall

A study of the principles, conventions and concepts underlying internal and external reporting of accounting information by business organizations, and the application of these principles in evaluation, interpretation and utilization of accounting data for managerial decisions. *Prerequisite:* ACC 2322 or ACC 2339; FINA 3383.

ACCT 6321 International Taxation of Business Entities [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

Seminar on contemporary international and domestic accounting issues.

ACCT 6323 Accounting Seminar [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 course may be repeated for credit. *Recommended Prerequisites:* 15 hours of accounting, including ACC 3321, ACC 3323 and ACC 3324 or its equivalent.

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 6345 Anthropological Method and Theory [3-0]

As Scheduled

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 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 6 hours credit.

ANTH 6355 Psychology and Mythology [3-0]

Fall, odd years

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. Previous Course Number: ANTH 5355; a student may receive credit in only one course. *Equivalent Course:* May be counted as PSY 6355; a student may receive credit in only one course.

ANTH 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 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 6 hours of credit as topics change.

Art**ART 6301 Studio Experience (2-D) [3-0]***As Scheduled*

Exploration of personal vision within a two-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. *Prerequisite:* Graduate standing.

ART 6302 Studio Experience (3-D) [3-0]*As Scheduled*

Exploration of personal vision within a three-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. *Prerequisite:* Graduate standing.

ART 6303 Graduate Studio Techniques (2-D) [3-0]*As Scheduled*

This course is intended for pursuing a minor area. Emphasis will be given to working in a technical direction outside the student's designated major area. Repeatable for a total of 9 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 9 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 Courses

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 6 hours each. If the dissertation is not completed following the 12-hour requirement, the student must register in 3 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 5309 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:* 8 hours of introductory biology (1400 level), BIOL 2401 or BIOL 2402, and graduate standing. \$20 laboratory fee.

BIOL 5311 Advanced Ecological Physiology [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. \$20 laboratory fee.

BIOL 5312 Advanced Ornithology [3-3]*As Scheduled*

Studies in avian biology with emphasis on taxonomy, behavior and ecology. Previous course number: BIOL 6312; credit may be received for only one course.

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 6 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 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 5345 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 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***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 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 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 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:* 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 Marine Biology [2-3]*As Scheduled*

A study of current topics in marine biology; may be repeated for credit as topics change. *Prerequisite:* Graduate standing. \$20 laboratory fee.

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 Zoology [3-0]*As Scheduled*

Theory and methods of taxonomy, classification, phylogeny and biogeography as applied to animals. *Prerequisite:* Graduate standing. \$20 laboratory fee.

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 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 6320 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 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 3 hours undertaken in graduate biological research problems will count toward a Master of Science in Biology. \$4 laboratory fee.

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 5301 Advanced Biochemistry [3-0]
Spring

The course is the continuation of CHEM 3303. This course reviews 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.
Prerequisite: CHEM 3103 and CHEM 3303.

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 6305 Graduate Clinical Practicum: Speech-Language Pathology

Fall, Spring, Summer

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 each fall and spring semester; part-time students are required to enroll each summer session. Students enrolled in COMD 6305 are required to be available for a minimum of 15 hours each week during operating hours of the Speech and Hearing Center so that they may receive practicum assignments. *Prerequisites:* Graduate standing, minimum GPA of 3.0 and submission of practicum application no later than the published deadline. ASHA: Language disorders

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. *Prerequisite:* Graduate standing. ASHA: Related area

COMD 6320 Speech-Language and Hearing Science [3-0]

Spring

A study of embryology and neurology and their relation to the speech and language processes; physics of sound; psychology of communication; linguistics; and dialectology. Modern studies and research in the sciences related to speech and language will be addressed. *Prerequisites:* COMD 6310 and graduate standing. 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 having abnormal language development, an in-depth study of the methods for language

intervention will be presented. Family-based assessment and intervention will be addressed.
Prerequisites: COMD 6310 and graduate standing.
 ASHA: Language disorders

COMD 6330 Fluency Disorders [3-0]
Summer

A study of a variety of theories, research findings, rationales and techniques for the clinical intervention of fluency disorders in children and adults.
Prerequisites: COMD 6310 and graduate standing.
 ASHA: Speech disorders

COMD 6335 Language Disorders in Adults [3-0]
Spring

An in-depth study of adult language disorders, including aphasia, head injury and the degenerative diseases. Includes intervention strategies for these disorders. *Prerequisite:* COMD 6310. ASHA: Language disorders

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: COMD 6310, COMD 6320 and graduate standing. ASHA: Speech disorders

COMD 6345 Voice Disorders [3-0]
Summer

Following a review of anatomical and physiological bases for voice production, causes, characteristics and approaches to intervention for a wide variety of voice disorders will be addressed. *Prerequisites:* COMD 6310, COMD 6320 and graduate standing. ASHA: Speech disorders

COMD 6350 Audiology II [3-0]
Fall

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 6310, COMD 6320 and graduate standing. ASHA: Hearing disorders and hearing evaluation

COMD 6355 Normal and Abnormal Language Development of Culturally Diverse Populations [3-0]

Spring

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. ASHA: Language disorders

COMD 6360 Cranio-Facial Anomalies [3-0]
Summer

A study of communication disorders exhibited by individuals presenting with cleft lip/palate and other cranio-facial anomalies. The diagnosis and remediation of speech disorders due to deviation in the dental, skeletal and muscular systems will be addressed. Students will be required to participate in the Cranio Facial Anomalies Advisory Team of South Texas, Inc., clinic meetings. *Prerequisites:* COMD 6310, COMD 6320, COMD 6325, COMD 6340 and graduate standing. ASHA: Speech disorders

COMD 6365 Language Assessment of Culturally and Linguistically Diverse Populations [3-0]

Fall

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 6310, COMD 6325, COMD 6340, COMD 6355 and graduate standing. ASHA: Language disorders

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: 6 hours. *Prerequisites:* COMD 6310, graduate standing and permission of instructor. ASHA: Speech/Language disorders (depending on content)

COMD 6375 Seminar in Audiology [3-0]
Spring, Summer

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: 6 hours. *Prerequisites:* COMD 6310, graduate standing and permission of instructor. ASHA: Audiology (depending on content)

COMD 6380 Graduate Practicum: Audiology
Fall, Spring, Summer

Supervised Clinical Practice in Audiology. *Prerequisites:* COMD 6310, COMD 6350, graduate standing, minimum GPA of 3.0 and submission of practicum application before published deadline.

COMD 6385 Dysphagia [3-0]
As Scheduled

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 in the graduate program in Communication Sciences and Disorders or permission of the instructor and the chair.

COMD 6395 External Practicum
Fall, Spring, Summer

Students are required to successfully complete at least two semesters of external practicum at two distinctly different off-campus practicum sites. To become eligible, students must follow the guidelines that are provided in the Academic and Clinical Procedures Manual. Practicum applications must be submitted before the published deadline. External 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 Communication Disorders faculty liaison. *Prerequisites:*

Graduate standing, minimum GPA of 3.0, submission of practicum application before published deadline and completion of all requirements published in the Academic and Clinical Procedures Manual.

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 3 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 graduate standing.

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 on philosophic bases of rhetorical and communication theories and their relationship to social, political and cultural settings.

COMM 6321 Seminar in Communication Education (COMM) [3-0]*As Scheduled*

Advanced studies in historical and contemporary theories and problems in speech communication pedagogy. Emphasis on multicultural and international education.

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 Speech Communication (COMM) [3-0]*As Scheduled*

Course will focus on current communication theory and research in specialized areas of the discipline. May be repeated twice 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 6331 Mass Communication Theory (COMM) [3-0]*As Scheduled*

This course will cover the major theories of mass communication and emphasize concept explication and theory building.

COMM 6332 Public Relations Campaigns (COMM) [3-0]*As Scheduled*

This course will examine the elements of effective campaigns and will analyze the role of public relations 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 6351 Communication Technology (COMM) [3-0]*As Scheduled*

This class will offer extensive instruction in media technology which includes desktop publishing, PowerPoint, photo manipulation, Web design, scanning, etc.

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 6353 Gender and the Mass Media (COMM) [3-0]*As Scheduled*

An examination of the process by which gender roles and the normative social, political and communication behaviors that are a function of those roles are constructed through and by various mass media. Drawing from analytic critical methodologies such as historical criticism, feminist theory, mythic criticism, discourse criticism and cultural studies, this course will address the social and cultural politics of gender meaning in mass communication.

COMM 6354 Great Orators in Western Civilization (COMM) [3-0]*As Scheduled*

A critical survey of the Western World's most significant orators and their speeches. The course will cover Pericles, Demosthenes, Cicero, St. Augustine, Burke, Churchill, Webster, Lincoln, Douglas, Anthony, King, Malcolm X and Kennedy.

COMM 6355 Professional Speaking (COMM) [3-0]*As Scheduled*

This is a graduate performance course in genres of Public Speaking. Students will give lectures (using PowerPoint), eulogies, sales presentations, tribute speeches, humorous talks, motivational speeches and commencement addresses.

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 6361 Film and Television as Propaganda (COMM) [3-0]*As Scheduled*

Examination of various media forms with particular attention to film and television that operate as

propagandizing media, where propaganda is understood to be mass communicated messages to inform, persuade and mobilize human behavior.

COMM 7300 Thesis: Theater

Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7301 Thesis: Theater

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 Statistical Methods in Criminal Justice [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 [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 Juvenile Justice System [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 Issues in Corrections [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 Issues in Policing [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 Special Topics in Criminal Justice [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 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 6180 Problems in Computer Science*As Scheduled*

An area of computer science is examined under the direction of a faculty member. Credit varies from 1-3 hours. May be repeated. A total of 6 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 [3-0]*As Scheduled*

Focusing on a high-level object oriented language, provides foundational study of algorithms, data structures, software engineering and programming systems. *Prerequisite:* Consent of instructor.

CSCI 6303 Principles of Information Systems [3-0]*As Scheduled*

Presents foundations of information technology with overviews of databases, knowledge-based systems, E-commerce, software engineering, software tools, programming, network communications and Internet. *Prerequisite:* Consent of instructor.

CSCI 6314 E-Commerce Systems and Implementation [3-0]*As Scheduled*

Presents principles E-commerce systems implementation, examining specific examples in depth. Students implement a working prototype site as class projects. *Prerequisite:* CSCI 6302 and consent of instructor.

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*

Considers different forms of processor architectures for PCs, workstations, and mainframe computers, including RISC and parallel architectures. Topics will include cache architectures and concerns, pipelining, SIMD and MIMD architectures, and data flow architectures. *Prerequisite:* CSCI 6300, CSCI 4335 or equivalent, or consent of instructor.

CSCI 6336 Programming Languages and Compilers [3-0]*As Scheduled*

Formal and applied methods of program and language description, including denotational, operational and axiomatic semantics. *Prerequisite:* CSCI 6301, CSCI 3336 or equivalent, or consent of instructor.

CSCI 6337 Simulation [3-0]*As Scheduled*

The theory and design of discrete simulations are discussed. Topics include modeling techniques, data collection and analysis, random number generators, analysis of output, and optimization. *Prerequisites:* CSCI 3333 and MATH 4339 or equivalent background in probability, or consent of instructor.

CSCI 6339 Theoretical Foundations of Computation [3-0]*As Scheduled*

Examines classes of languages and abstract machines including finite state automata, pushdown automata, Turing machines and the Chomsky hierarchy of formal languages, including regular sets, context-free languages, context-sensitive languages and recursively enumerable languages. *Prerequisite:* CSCI 6301, MATH 3373 or equivalent, or consent of instructor.

CSCI 6340 Advanced Software Engineering [3-0]*As Scheduled*

An overview of the software engineering process, including software project management, system and software requirements analysis, structured analysis, object-oriented analysis, design and implementation of software. Data-flow, object-oriented, user interface and real-time design methods. Software quality assurance and testing methods. Use of CASE tools. Will include a major design project. *Prerequisite:* CSCI 6301, CSCI 3340 or equivalent, or consent of instructor.

CSCI 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 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 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 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 6 hours may be counted toward fulfillment of degree requirements. *Prerequisite:* Consent of instructor.

CSCI 6380 Problems in Computer Science*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

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 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:* ECO 2353 and ECO 2354.

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:* ECO 6301 or ECO 2353 and 2354.

ECON 8351 Seminar in Economics 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.

Education

ED 7300 Thesis*As Scheduled***ED 7301 Thesis***As Scheduled*

Curriculum and Instruction

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 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.

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 Second Language Teaching: Theory and Methodology [3-0]
As Scheduled

A study of the acquisition of languages by the bilingual learner, focusing on the role of the child, the community and the school through various stages of language development and the relationship of linguistic, cultural and conceptual processes within a bilingual/bicultural environment. The evaluation of language methods and materials as these relate to social context and the principles of communication will be stressed.

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 languages 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 languages.

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.

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 secondary 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 secondary schools. Particular emphasis will be placed upon studying promising research ideas and exploring local efforts toward improving secondary 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. May be repeated for credit when topic changes.

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.

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 [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.

EDCI 6328 Mathematics in the Elementary School [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.

READ 5313 Reading Tests [3-0]

Spring

A major function of this course is to help graduate students develop competencies in the selection, administration, scoring and interpretation of standardized tests, with particular emphasis upon their application to reading instruction. Special emphasis will also be given to the development and use of informal

evaluative instruments to meet particular reading needs of students.

READ 5351 Teaching Reading to the Secondary Student [3-0]

Spring, Summer

The relation of reading ability to academic achievement, procedures for teaching reading skills needed in content area reading and reading difficulties encountered by secondary students are included in this course. The student will use diagnostic tools and techniques to determine reading needs of secondary students and will develop reading-learning activities to meet those needs.

READ 6308 Foundations of Reading Instruction [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 Topics in Reading [3-0]

As Scheduled

This course is concerned primarily with innovations and current issues in reading instruction. Trainees will select topics of particular interest and concern for intensive study. Experiences of the trainee may include action research, working with classroom teachers and other adults in the school community to enhance the reading program. May be repeated once, when emphasis is on study in resource areas or professional areas related to the field of reading.

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 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 socio-cultural 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.

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 lifestyles of students in early childhood educational programs.

EDEC 6381 First and Second Language Development in Young Children [3-0]

As Scheduled

A study of bilingualism in young children, beginning with first language development and subsequent second language acquisition, stressing the interrelationships between the two languages in the domains of auditory perception, oral language, visual perception and motor coordination.

EDEC 6382 Emergent Literacy Development [3-0]
As Scheduled

This course will focus on the perspective that the literacy process is a developmental one that begins in infancy. It is designed to acquaint students with children's literacy development from birth through age eight. Appropriate educational practices to promote literacy development will be examined.

EDEC 6390 Internship in Early Childhood Setting I
As Scheduled

On-site internship in a public setting with focus on the physical, motor and social development of the young child. *Prerequisites:* 15 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
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:* 30 Early Childhood program graduate hours to include EDEC 6380, EDEC 6381, EDEC 6382, EDEC 6390 and 6 hours from Communication, English and/or Spanish.

Educational Leadership

EDUL 6300 Introduction to Research [3-0]
Fall, Spring, Summer

A study of research methods in education including settings that culminate in the successful completion of a research project/paper. Students will demonstrate skills in the utilization of research facilities and will be introduced to graduate programs in education. This course should be taken within the first 6 hours of graduate work. Cross-listed with EDCI 6310 and ED 6300.

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 Statistical Methods [3-0]*Fall, Spring, Summer*

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 fit and test of independence of chi square; one-way and two-way and three-way factorial ANOVA. There will be an emphasis on hypothesis testing; Type I and Type II errors; an understanding of statistical significance and practical or functional significance.

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 Administration of Pupil Personnel Services [3-0]*Fall, Spring, Summer*

A problem approach to the understanding, development and management of special pupil services of concern to the teacher, counselor, supervisor and administrator.

EDUL 6388 Socio-Cultural 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, Spring*

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*Fall, 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 7310 Administration of School Facilities [3-0]*Spring, odd years*

A study of operation, utilization and maintenance of physical plant; determination of facilities needs;

planning building programs and school plant development.

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 7313 Internship for the Superintendent

Fall, Spring (Offered every other year)

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. (Final course in Superintendency Program.)

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 [3-0]

Fall, odd years

A study of Texas public school finance as mandated by the several sub-segments of the Texas Education Agency. Financial aspects of all segments of TEA will be reviewed; selected emphasis will be placed on several major programs under the agency.

EDUL 8123 Selected Topics in Research

As Scheduled

Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8134 Topical Seminar [1-0]

As Scheduled

May be repeated for credit when the topics vary.

EDUL 8223 Selected Topics in Research

As Scheduled

Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8234 Topical Seminar [2-0]

As Scheduled

May be repeated for credit when the topics vary.

EDUL 8301 Leadership and Organizational Behavior [3-0]

As Scheduled

Application of theories of organization to the problems of educational institutions. Subjects such as motivation, work and careers, power and influence, communication and perceptions, group dynamics, work design and organizational control considered from the perspective of the leader and decision-maker.

EDUL 8302 Theories of Learning and Instruction [3-0]

As Scheduled

Examination of various theories of learning and instruction and their impact on current teaching practices. Instructional leadership will receive emphasis.

EDUL 8303 Educational Politics and Policy [3-0]

As Scheduled

Survey of theoretical and empirical literature related to educational politics and policy, including political systems theory, intergovernmental relations, power and conflict, community relations and intergroup theory, and policies dealing with equity, quality, efficiency and choice.

EDUL 8304 Social and Cultural Contexts of Education [3-0]

As Scheduled

The relationship of contemporary educational institutions, both public school and higher education, to their social setting.

EDUL 8305 Economics of Education [3-0]

As Scheduled

Survey of theoretical and empirical literature related to the economic context of educational institutions, including scarcity, income determination, expenditures, resource allocation and perspectives on progressivity and economic development.

EDUL 8306 Ethics and Values in Educational Administration [3-0]*As Scheduled*

Examination, from the point of view of various ethical systems, of issues of equity, distributive justice, codes of ethics in educational professions, treatment of students and other issues that face administrators of educational systems. Designed to sensitize prospective educational leaders to the ethical content of educational decisions.

EDUL 8307 Organizational Theory in Education [3-0]*As Scheduled*

Application of theories of organization to problems of educational institutions; designed to develop diagnostic skills necessary for successful administration of complex educational enterprises.

EDUL 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 8350 Doctoral Internship*As Scheduled*

As stated in the THECB Standards for EdD 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**
(1, 3 or 6 semester credit hours)

EDUL 8195, 8395, 8695, 8995 **Dissertation-Writing**
(1, 3 or 6 semester credit hours)

Electrical Engineering

All courses [3-0] and as scheduled, except for ELEE 6181, 6385, 6390, 6395, 6396. These courses should have hours section blank.

ELEE 6300 Signals and Systems

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. *Prerequisites:* ELEE 3340 or equivalent.

ELEE 6305 Numerical Techniques in Electrical Engineering

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

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. *Prerequisites:* ELEE 4360 or equivalent, or consent of instructor.

ELEE 6315 Applied Electromagnetics

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. *Prerequisites:* ELEE 3315 or equivalent, or consent of instructor.

ELEE 6320 Semiconductor Devices

Theory and application of advanced semiconductor devices including heterostructures, integrated circuits, semiconductor memories, charge transfer devices and microwave devices. *Prerequisites:* ELEE 4338 or equivalent.

ELEE 6325 Modeling, Control and Application of Mechatronic Systems

Examine fundamental electrical and mechanical laws for derivation of machine models; simplifying transformations of variables in electrical machine models; power electronics for motor control; linear and nonlinear control approaches; digital control implementation. Discuss typical electromechanical applications in actuators, robotics and variable speed/torque drives. *Prerequisites:* ELEE 4308, 4321 and 3370, or consent of instructor.

ELEE 6326 Electric Motor Drives

Analysis of motor drive dynamics; speed and torque control; implementation aspects; discussion of applications. *Prerequisites:* ELEE 4308 or equivalent, or consent of instructor.

ELEE 6327 Neural Networks

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 consent of instructor.

ELEE 6330 Linear Dynamic Systems

Introduction to linear dynamic systems; state-space analysis; stability theory; applications to feedback control; elements of optimal control. *Prerequisites:* ELEE 4321 or equivalent, or consent of instructor.

ELEE 6331 Nonlinear Systems

Introduction to analysis of nonlinear systems. Lyapunov stability analysis. Advanced stability analysis. Input-Output stability. Analysis of feedback systems. Analysis of singular perturbation models. Nonlinear feedback control. Feedback linearization. Lyapunov-based design. *Prerequisites:* ELEE 4321 and ELEE 6330.

ELEE 6332 Optimization

Introduction to linear and nonlinear optimization. Simplex and non-simplex methods. Nonlinear constrained optimization methods. Genetic algorithms. Engineering optimization applications. Numerical methods for optimization of engineering systems. *Prerequisite:* MATH 3349 or equivalent or consent of the instructor.

ELEE 6335 Advanced Computer Architecture

Fundamentals of Design, Instruction Set Principles, Pipelining, Advanced Pipelining and Instruction Level Parallelism, Fine-Grain Parallelism, Multiple Instruction Issue and Superscalars, Memory-Hierarchy Design, Storage Systems, Interconnection Networks, Multi-Processors and Vector Processors. *Prerequisite:* ELEE 4303.

ELEE 6336 Fiber Optical Communication Systems

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. *Prerequisites:* ELEE 4351 or equivalent.

ELEE 6340 Digital Communications

Basic concepts of digital communication systems; representation of bandpass waveforms; signal space analysis and optimum receivers in Gaussian noise; comparison of digital modulation methods; synchronization and adaptive equalization; applications to modern communication systems. *Prerequisites:* ELEE 4351 or equivalent.

ELEE 6345 Digital Signal Processing 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. *Prerequisites:* ELEE 4360.

ELEE 6346 Digital Signal Processing II

DSP real time applications, DSP chip architecture. Advanced topics in digital signal processing. *Prerequisites:* ELEE 6345.

ELEE 6350 Microprocessor System Design and Applications

Microprocessor design fundamentals, design methods, interfacing, bus architectures, peripherals, embedded applications, development systems, software. *Prerequisites:* ELEE 4303.

ELEE 6351 Testing and Testable Design

Fault modeling and simulation. Test pattern generation. Built-in self-test. Design for testability. Testing PLA, RAM, microprocessor and complex VLSI circuits. *Prerequisite:* Two undergraduate courses in digital systems.

ELEE 6355 Contemporary Microprocessor Design

Superscalar, Superpipelined and VLIW processors, Speculative Execution, Branch Prediction, Value Prediction, Address Prediction, Integrating Processors and Memory, Multiple processors on a chip. *Prerequisites:* ELEE 6335.

ELEE 6360 High Speed Networks

Introduction to networking concepts, latest networking architecture and protocols for high-speed communications. Local Area Networks (LANs), Wide Area Networks (WANs), IP/ATM, SONET. *Prerequisites:* Consent of the instructor.

ELEE 6361 Broadband Communications

Introduction to Broadband networking concepts, latest broadband networking technologies and protocols. Broadband backbone & access networks, DSL networks, Fiber-to-the-Curb (FTTC) networks, broadband switching architecture & protocols. Traffic management, congestion control, buffering issues, quality of service for broadband networks. *Prerequisites:* Consent of the instructor.

ELEE 6372 Parallel and Distributed Systems

Study of parallel and distributed computing, including models algorithms, languages, compilers, interconnection networks and architectures. Distributed data, formal models of concurrency, protection and security in computer networks. *Prerequisites:* ELEE 6335.

ELEE 6374 Advanced Digital System Design

Modern logic design methodologies of large digital systems with standard SSI, MSI and LSI, including CPLDs and microprocessors. Multilevel digital simulation and hardware language description; principles and techniques of testability design and testing of digital logic circuits. *Prerequisites:* ELEE 4303 or equivalent.

ELEE 6375 VLSI System Design I

Fundamentals of VLSI Design, VLSI Design Strategies. Chip Design Options, Design Methods, and 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

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. *Prerequisites:* ELEE 6375

ELEE 6181 Graduate Seminar in Electrical Engineering [1-0]

Conferences and discussions of various topics in electrical and computer engineering by faculty, graduate students, and speakers from industry and other institutions. *Prerequisites:* Graduate standing.

ELEE 6385 Independent Study

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. *Prerequisites:* Permission of the instructor.

ELEE 6390 Master's Project

Individual research, design or analysis of advanced phases of electrical or computer engineering problems conducted under the direct supervision of a faculty member. The course, including a written report, should be taken twice by all students in the project option. *Prerequisites:* 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. *Prerequisites:* Permission of the instructor.

ELEE 7300 Master Thesis I

First part of two-course sequence.

Prerequisite: Graduate standing and consent of thesis advisor.

ELEE 7301 Master Thesis II

Second part of two-course sequence.

Prerequisite: ELEE 7300.

English

ENG 6300 Bibliography and Research Methods [3-0]

Spring

A survey of the major sources of literary history and criticism and an introduction to methods and aids in literary research methods. Required of all graduate English majors.

ENG 6302 Modern English Syntax [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 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.

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 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.

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 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.

ENG 6347 Problems in Literary Criticism [3-0]

As Scheduled

Major aesthetic theories related to exercises in practical criticism.

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; 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 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 Renaissance - Modern Literature [3-0]

As Scheduled

The comparison of particular topics, motifs or genres in the literature of two or more languages or cultures. May be repeated when the topic varies.

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

ED 6300 Introduction to Research
Fall, Spring, Summer

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]
Fall, Spring, Summer

A research approach to the areas of teaching and learning. Human learning, conditions for effective learning, interference with learning and behavioral objectives will be emphasized. *Prerequisite:* EDCI 4302 or equivalent.

ED 6320 Microcomputers in Student Services [3-0]
Fall, Spring, Summer

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]
Fall, Spring, Summer

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.

EPSY 6100 Seminar in Counseling and Guidance
Fall, Spring, Summer

This course will provide the students 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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6101 Seminar in Counseling and Guidance
Fall, Spring, Summer

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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6102 Seminar in Counseling and Guidance
Fall, Spring, Summer

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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6103 Seminar in Counseling and Guidance
Fall, Spring, Summer

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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6104 Seminar in Counseling and Guidance
Fall, Spring, Summer

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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6105 Seminar in Counseling and Guidance
Fall, Spring, Summer

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 1 to 6 hours credit. *Prerequisite:* Permission of instructor.

EPSY 6300 Individual Differences [3-0]*Fall*

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 Emotionally Disturbed and Autistic [3-0]*Spring, Summer I*

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]*Summer II*

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]*Summer II*

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 Individuals in Special Education [3-0]*Fall, Spring, Summer*

This survey course provides an overview of the most relevant special education issues to exceptional culturally and linguistically diverse individuals and their families. Topics include linguistic and cultural factors that influence assessment, service delivery models, educational planning and collaboration/consultation with parents and professionals.

EPSY 6305 Problems, Trends and Issues: Medical and Physical Aspects of the Education of Individuals with Severe and Profound Disabilities [3-0]*Fall, Spring, Summer*

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 Problems, Trends and Issues: Infant and Early Childhood Special Education [3-0]*Fall, Spring, Summer*

This course covers the needs of exceptional infants and young children from birth through six and the techniques for implementing holistic individual developmental approaches based on information generated from an interdisciplinary team.

EPSY 6310 Introduction to School Psychology [3-0]*Fall*

The content of this course will include the role of the school psychologist in schools and agencies; ethics; and knowledge of consultation with parents, students, teachers, administration and community agencies in a pluralistic society.

EPSY 6311 Applied Behavioral and Cognitive Therapies [3-0]*Summer*

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]*Summer*

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 Problems, Trends and Issues: Interdisciplinary Coordination and Parent Consultation with Individuals with Severe and Profound Disabilities [3-0]

Fall, Spring, Summer

This course will address the roles of the special education teacher as a consultant on the interdisciplinary team. Emphases 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 Strategies, Curricula, and Materials for Individuals with Severe and Profound Disabilities [3-0]

Fall, Spring, Summer

This course will survey assessment and educational strategies, curricula, and materials for individuals, including the culturally and linguistically different, with severe and profound disabilities. Emphases will be on development of communication, cognitive and social skills and instructional technology.

EPSY 6315 Strategies, Curricula, and Materials for Teaching the Seriously Emotionally Disturbed [3-0]

Fall, Spring, Summer

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 6317 Literacy for Secondary Students with Mild Disabilities [3-0]

Fall, Spring, Summer

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]

Fall, Spring, Summer

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]

Fall, Spring, Summer

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 6321 Practicum in Special Education with Culturally/Linguistically Diverse Populations [3-0]

Fall, Spring, Summer

A field based practicum experience with the population of individuals with disabilities from culturally and linguistically diverse backgrounds who are receiving services in special education. There will be an emphasis on consultation techniques, collecting of relevant assessment data and collaboration with other professionals and involvement in parent training.

EPSY 6330 Identifying the Gifted and Talented [3-0]

As Scheduled

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]*As Scheduled*

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]*As Scheduled*

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]*As Scheduled*

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*As Scheduled*

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*As Scheduled*

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]*As Scheduled*

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 6340 Critical and Creative Thinking in Gifted Students [3-0]*As Scheduled*

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]*As Scheduled*

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]*As Scheduled*

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]*As Scheduled*

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*As Scheduled*

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]*As Scheduled*

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]*Fall, Spring*

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:* ED 6367 or consent of instructor.

EPSY 6352 Multivariate Analysis [3-0]*Spring*

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:* ED 6367 and EPSY 6351 or equivalent or consent of instructor.

EPSY 6353 Seminar in Statistical Analysis [3-0]*As Scheduled*

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]*Fall*

The course in program evaluation includes formative and summative evaluation through decision, program modification, objectives, outcome and performance-based evaluation models that affect policy and program change. This course will require assessing and interpreting a project in program evaluation.

EPSY 6355 Introduction to Research [3-0]*As Scheduled*

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 6361 Organization and Management of Guidance and Counseling Programs [3-0]*Fall, Spring, Summer*

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]*Fall, Spring, Summer*

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]*Fall, Spring, Summer*

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, EPSY 6362.

EPSY 6364 Counseling Methods and Techniques [3-0]

Fall, Spring, Summer

This course provides helping 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]

Fall, Spring, Summer

The purpose of this course is to assist helping 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]

Fall, Spring, Summer

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]

Fall, Spring, Summer

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. *Prerequisites:* EPSY 6370 or EPSY 6350.

EPSY 6368 Counseling Practicum I [3-0]

Fall, Spring, Summer

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 9 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]

Fall, Spring, Summer

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]

Fall, Spring, Summer

The content of this course will include scaling; variance; scores derived through linear and nonlinear transformations; traditional item analysis and introduction to latent trait models; reliability and true score theories; partitioning total variance into true and measurement error variance and measurement error variance into its different sources; validity, content, predictive, concurrent and construct; models of unbiased assessment. These topics will be related to the construction and interpretation of norm and criterion reference measures, teacher-made test and systematic observational scales.

EPSY 6371 Models of Unbiased Assessment [3-0]
Spring

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]
As Scheduled

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 Psychological Assessment I [3-0]
Fall

The content of this course will include administering, scoring and interpreting Stanford-Binet Intelligence Scale, human figure drawings and Kaufman-ABC Test. Opportunity for administering these measures in Spanish or English for intervention will be provided. Practica required. *Prerequisite:* EPSY 6370 or consent of instructor.

EPSY 6381 Psychological Assessment II [3-0]
Spring

The content of this course will include the administration, scoring and interpretation of Raven's Progressive Matrices (in pantomime), Wechsler Scales (WAIS-R, WISC-R, WPPIS), sociocultural and adaptive behavior scales for intervention. Models of unbiased assessment for children whose socioeconomic, sociocultural and linguistic backgrounds are at variance from the American Society core culture will be covered. Practica required. *Prerequisite:* EPSY 6370 or consent of instructor.

EPSY 6382 Psychological Assessment III [3-0]
Fall

The content of this course will include assessment of limited English and/or Spanish proficient individuals, language proficiency measures, developmental scales and age scales and achievement tests for intervention. Opportunity for administering these measures in

Spanish or English will be provided. Practica required. *Prerequisites:* EPSY 6370 and EPSY 6380 or consent of instructor.

EPSY 6383 Psychological Assessment IV [3-0]
Spring

The content of this course will include administration, scoring and interpretation of self-report inventories, projective drawings and introduction to projective techniques for intervention. Practica required.

Prerequisites: EPSY 6370, EPSY 6380, EPSY 6381 and PSY 6310 or consent of instructor.

EPSY 6384 Topographic Brain Mapping and Cognitive Assessment [3-0]
As Scheduled

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 Specialized Assessment Techniques and Program Planning for Teaching Individuals with Autism and Pervasive Developmental Disorders [3-0]
As Scheduled

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 6386 Specialized Assessment Techniques and Program Planning for Infants with Disabilities [3-0]
As Scheduled

This course will survey developmental strategies, curricula and materials for infants, birth through two, including those who are culturally and linguistically different. Emphases will be on assisting the at-risk infant in the motor, cognitive and affective domains as well as meeting the needs of the family.

EPSY 6387 Specialized Assessment Techniques and Program Planning for Young Children with Disabilities [3-0]

As Scheduled

This course will survey developmental strategies, curricula and materials for young children, two through five, including those who are culturally and linguistically different. Emphases will be on assisting the at-risk child in the motor, cognitive and affective domains as well as meeting the needs of the family.

EPSY 6388 Specialized Assessment Techniques and Program Planning for Teaching Individuals with Severe and Profound Disabilities [3-0]

As Scheduled

This course will survey developmental strategies, curricula and materials for individuals, including the culturally and linguistically different with severe and profound disabilities. Emphases will be on motor and self-help skills, environmental modification and adaptive equipment.

EPSY 6389 Assessment and Instructional Adaptations for Culturally and Linguistically Diverse Students with Mild Disabilities [3-0]

As Scheduled

This course focuses on instruction of language minority students with mild disabilities. Emphasis is given to the development of individualized educational programs which address needs associated with handicapping conditions, as well as students' linguistic and cultural characteristics. Course topics include critical analysis of the research and characteristics of effective instructions for Limited English Proficient students with disabilities. Instructional strategies and approaches to the development of oral language, literacy skills and learning to learn strategies will be covered.

EPSY 6390 Human Growth and Development [3-0]

Spring, Summer

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]

Spring, Summer

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]

Fall, Summer

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 (150) clock hours of direct and indirect contact is required (maximum of 80 direct and maximum of 70 indirect). *Prerequisite:* EPSY 6368 and EPSY 6369.

EPSY 6393 Marriage and Family Counseling [3-0]

Spring, Summer

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 6604 Practicum in Educational Diagnostician [3-0]

Summer

Supervised practical experience in psychoeducational assessment and therapy. This culminating activity will provide intensive training in the entire educational process for a child, whereby data is gathered, a diagnosis is developed and implemented, and an ongoing evaluation is designed and monitored to serve as a measure of the child's social and educational growth. Course must be taken within last 6 hours of the program or in the last semester of work.

EPSY 7350 Internship I [3-0]

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*Fall, Spring*

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]*Spring, Summer II*

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 7602 Applied Research Project*As Scheduled*

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 Program.

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: FINA 3383.**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:* 12 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:* 12 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.

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 the material covering management and marketing issues. Supplemental readings will be required and will be from the international marketing and international management literature. *Prerequisite:* Admission to MBA degree program.

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 trade mark protection. Seminar topics vary with the interests of the profession, doctoral students and doctoral faculty. Course may be repeated for credit with different topics.

INTB 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:* 9 hours of the international core courses, plus ISQM 8314 or ISQM 8315.

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 9 hours, when the topic is different. *Prerequisite:* 12 hours of 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 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 7300 Thesis

Scheduled by chair.

KIN 7301 Thesis

Scheduled by chair.

Management

MANA 6330 Management Theory and Organizational Behavior [3-0]

As Scheduled
An analysis of formal organizational theory and the interrelationship of individuals in organizations. A study of the organization as a system of authority, status, leadership, direction, culture, ethics, communication and influence, includes readings, cases and special reports. *Prerequisite:* MANA 3361.

MANA 6331 Personnel Administration and Industrial Relations [3-0]

As Scheduled
An analysis of the functions of personnel administration and of the relationship between the personnel-industrial relations system and the total organization system. Contemporary industrial relations, philosophies and practices.

MANA 6332 Management Seminar [3-0]

As Scheduled
The development of management thought and practice with emphasis on current trends and problems in management. This course has variable content and may be repeated for credit with consent of the instructor. Previous course number: MANA 6366; credit may be received for only one course.

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 6335 Organizational Theory [3-0]*As Scheduled*

This course is the study of designing organizations. The effects of environments, strategies, technology, age/size, innovation, power/politics, international business on organizational structure and organizational effectiveness will be covered.

MANA 6360 Operations Management [3-0]*As Scheduled*

This course focuses on the role of the production function in business systems and the study of production system operations. Emphasis is placed on production system design, integration of system inputs, outputs and transformations, and computer applications to decision processes utilized in managing operations and achieving optimal production.

Prerequisite: MATH 1322 or equivalent.

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: 15 hours of MBA core courses.

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 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 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 6311 Advanced Quality Control [3-0]*Fall*

Deming continuous improvements concepts, Q.C. 7-tools, basic problem procedures, control chart practice and applications, design of experiments, and Taguchi methods. ISO9000 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 6354 Advanced Engineering Economics [3-0]*Fall*

Evaluation of engineering proposals using time value of money, selections between alternatives, break-even and minimum-cost studies, depreciation, replacement studies, life cycle costing, inflation, financial analysis and control techniques for manufacturing enterprises. *Prerequisite:* Consent of instructor.

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 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 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 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 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 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 6328 Dynamic Systems Modeling & 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*

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 6342 Engineering Decision Support Systems [3-0]

As Scheduled

Engineering decision making, sequential decision procedures, design of engineering systems, knowledge acquisition and representation, hybrid systems and engineering applications. *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]

Spring

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 6380 Engineering Project Management [3-0]

As Scheduled

Planning, scheduling and control of engineering projects, network models, CPM, PERT, resource allocation, time-cost tradeoff. *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 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 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 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:* 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*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 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 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 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, 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 6360 Ordinary Differential Equations [3-0]*As Scheduled*

This course examines existence and uniqueness theorems, methods for calculating solutions to systems of ordinary differential equations, the study of algebraic and qualitative properties of solutions,

iterative methods for numerical solutions of ordinary differential equations and an introduction to the finite element methods. *Prerequisite:* MATH 3349 or consent of instructor.

MATH 6361 Partial Differential Equations [3-0]
As Scheduled

This course considers the existence, uniqueness and approximation of solutions to linear and non-linear ordinary, partial and functional differential equations. It also considers the relationships of differential equations with functional analysis. Computer-related methods of approximation are also discussed.

Prerequisite: MATH 3349 or consent of instructor.

MATH 6362 Fourier Analysis [3-0]
As Scheduled

The course includes trigonometric series and Fourier Series, Dirichlet Integral, convergence and summability of Fourier Series, uniform convergence and Gibbs Phenomena, L_2 space, properties of Fourier Coefficients, Fourier Transform and applications, Laplace Transform and applications, distributions, Fourier Series of distributions, Fourier Transforms of generalized functions, 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 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 6390 Mathematics Seminar [3-0]
As Scheduled

An introduction is given to the methods and tools of mathematical research. Independent work on assigned topics is expected of the student, with presentations on the results in both oral and written form. *Prerequisite:* Consent of instructor.

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. *Prerequisite:* Graduate standing and consent of instructor. Students

seeking a M.S. 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. *Prerequisite:* Graduate standing and consent of instructor. Students seeking an M.S. 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.

Mechanical Engineering

MECE 6310 Intermediate Engineering Analysis [3,0]

Topics include matrix operations, determinants, eigenvalues and eigenvectors, matrix decomposition, linear transformations, and orthogonality. Applications to linear programming, regression (least squares), and fast Fourier transform. Examples from mechanics, vibrations, and robotics.

MECE 6320 Intermediate Materials Engineering [3,0]

Advanced topics in fracture mechanics and a thorough introduction to corrosion processes and prevention. *Prerequisites:* MECE 2440, MECE 2321 or equivalents.

MECE 6321 Advanced Metallurgy [3,0]

Advanced topics in metals processing-property relationships. Physics of metal processing. Behavior of advanced alloys including Ni based, Titanium, Aluminum, and refractory metal alloy systems. *Prerequisites:* MECE 2440, MANE 2430, MECE 2321 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, MANE 2430, MECE 2321 or equivalents.

MECE 6331 Intermediate Dynamics of Mechanical System [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.

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.

MECE 6333 Continuum Mechanics

An introduction to the general theory of continuous media, including an examination of stress tensors, general constitutive laws, compatibility, equilibrium, conservation of mass and energy, with application to simple boundary value problems. *Prerequisite:* Graduate standing.

MECE 6351 Design, Analysis and Control of Planar Robotic Linkage Systems [3,0]

Fundamental design considerations are discussed with in-depth coverage of kinematic and dynamic modeling and analysis techniques for planar robotic manipulators and devices. Analytic strategies for position, velocity, force, and compliance control in both joint space and task space are covered. *Prerequisite:* Graduate standing.

MECE 6352 Advanced Kinematics and Dynamics of Robotic Systems [3,0]

Treatment in depth of the dynamics of robotic systems. Geometry; position analysis; dynamic modeling, analysis, and control of conventional serial robots, in-parallel manipulators, dual arms, and legged locomotion systems. *Prerequisite:* MECE 6351, or consent of instructor.

MECE 6361 Advanced Design of Machine Elements [3,0]

Review of basic machine elements, properties, and stresses; fluid coupling and torque converters; thermal stresses, relaxation, and beneficial residual stressing; shells and rotors; plasticity. *Prerequisite:* Graduate standing.

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. I-DEAS computer aided design and computer aided engineering software is introduced as a preprocessing tool. Strategies for meshing and applying boundary conditions are also examined. Existing codes are used for determining finite element solutions. *Prerequisite:* Graduate standing.

MECE 6363 Principles of Optimal Design [3,0]

An introduction to nonlinear programming with application to mechanical design. Emphasis is placed on mathematical modeling of engineering problems, selection of appropriate objective function and design variables. Various nonlinear programming algorithms are examined. Students apply course methodology to term design projects from various disciplines. *Prerequisite:* Graduate standing.

MECE 6371 Fundamental of Incompressible Flow [3,0]

Fundamentals, Kinematic and dynamic equations for compressible viscous flow, incompressible flow criteria, viscous flow patterns, and solution methods. *Prerequisite:* Graduate standing.

MECE 6381 Conduction Heat Transfer [3,0]

Analytical and numerical solutions of steady, periodic, and transient problems in conduction; properties of conduction materials. *Prerequisite:* Graduate standing.

MECE 6382 Convection Heat Transfer [3,0]

Laminar and turbulent transport; compressible and property effects, numerical simulation of convective transport. *Prerequisite:* Graduate standing.

MECE 6383 Radiation Heat Transfer [3,0]

Thermal radiation, blackbody properties, surface properties radiant exchange, absorbing and emitting media, combined modes. *Prerequisite:* Graduate standing.

MECE 6384 HVAC System Design [3,0]

Heating, air-conditioning, and refrigeration equipment; environmental control system analysis and design. *Prerequisite:* Graduate standing.

MECE 6391 Advanced Thermodynamics [3,0]

Development of macroscopic thermodynamics from basic physical relationship; introduction to the thermodynamics of mixtures. *Prerequisite:* Graduate standing.

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. *Prerequisite:* Graduate standing in mechanical engineering and consent of the graduate adviser.

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. *Prerequisite:* Graduate standing in mechanical engineering and consent of the graduate adviser.

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.

MIS 6338 Distributed Information Systems [3-0]
As Scheduled

This course offers the opportunity to develop an understanding of distributed information technology and its impact on business organizations. The course investigates the design and re-engineering of the organization associated with new technologies used in distributed systems. *Prerequisite:* MIS 6330.

MIS 6381 Decision Support Systems [3-0]
As Scheduled

The study of information systems for managerial decision making. The emphasis is on decision support systems, a main component of MIS used for middle-level and top-level managerial decision making. Topics include the study of human decision making models and group decision support systems. *Prerequisite:* MIS 6330.

MIS 6391 Strategic Management Information Systems [3-0]
As Scheduled

This course focuses on the strategic use of information systems and technologies by organizations for competitive advantages. Topics include end-user and departmental computing, the telecommunications environment, and the infusion of new technologies into an organization. *Prerequisite:* MIS 6330.

MUSIC

MUS 6105 Graduate University Choir

Vocal music organization open by audition to all university students who qualify.

MUS 6106 Graduate University Band

Instrumental music organization open by audition to all university students who play appropriate instruments.

MUS 6107 Graduate Symphony Orchestra

Instrumental music organization open by audition to students who play appropriate instruments.

MUS 6120 Graduate Chamber Music

Small vocal and/or instrumental ensembles open by audition to students who play appropriate instruments.

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 10 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 8 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 that resulted.

MUS 6336 Border Music of South Texas

A study of the cultural and 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

This course is an introduction to the field of ethnomusicology through a study of the history of the practice since the early 20th century; to provide an overview of the historical and bibliographic resources; and 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 of ethnomusicological method of 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

Historical and/or 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" and "Opera and Society." May be repeated as topics vary to satisfy 6 hours of degree requirement.

MUS 6395 Independent Studies

Individual readings and/or research on a selected topic under the supervision of a faculty member with whom specific arrangements have been made. *Prerequisite:* Permission of instructor.

MUS 7300 Thesis

Preparation of original research under the guidance of the student's major professor and advisory committee. To be taken near the end of the student's degree program. A requirement for graduation for students selecting the thesis option. *Prerequisite:* At least 20 hours of degree credit.

MUS 7301 Thesis

Continuation of MUS 7300. *Prerequisite:* MUS 7300 and formal approval of the thesis topic proposal.

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 andragogy 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 6321 Advanced Adult Health I [2-3]
Spring

This course focuses on health restoration, maintenance and promotion for adults in a variety of health care settings. Developmental dynamics through the adult life cycle are examined. The Mexican-American cultural dynamics receive special emphasis when examined through psychological, physiological, sociological, sexual and spiritual domains. *Prerequisite:* Credit for or concurrent enrollment in NURS 6305.

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. *Prerequisite:* 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.

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 6 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 6 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 6 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 6 hours of psychology and/or consent of instructor.

PSY 6330 Advanced Studies in Child Development [3-0]

As Scheduled

A survey of the major theoretical traditions in child development through adolescence, with application to selected areas to illustrate the theories. *Prerequisites:* Graduate standing and 6 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 Cross-Cultural Psychology [3-0]
Fall (when offered)

The course emphasizes the major areas of current research on cross-cultural psychology; these include the study of personality across cultures, Western and non-Western definitions of abnormal behavior and international research on attitudes and values.

PSY 6348 Biofeedback and Self-Regulation [3-0]
As Scheduled

An examination of the current research, theory and applications of autonomic self-regulation and its implications for behavior medicine.

PSY 6350 Memory and Cognition [3-0]
As Scheduled

The experimental study of memory and of intellectual processes, including pattern recognition, speech perception, attention, concept formation, thinking and problem-solving.

PSY 6351 Judgment and Decision-Making [3-0]
As Scheduled

A study of the cognitive processes involved in judgment and decision-making. Emphasis on both the theoretical and pragmatic aspects of the subject. Topics include normative rules versus heuristics, rationality/irrationality, controversy, biases and fallacies, function and adaptive nature of judgment, decision-making, reasoning, and problem-solving in everyday life. Has wide applications in social sciences, health sciences, economics, business administration, and marketing.

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:* 6 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 6358 Substance Abuse Treatment [3-0]
As Scheduled

The spectrum of approaches to treatment of substance abuse disorders will be reviewed, including dual diagnosis disorders. Emphasis will be placed on individual and group psychotherapy for these disorders. Common drugs of abuse, including effects, side-effects and health complications will be presented. *Prerequisite:* Admission to a graduate program in a health service field.

PSY 6360 Clinical Neuropsychology [3-0]
As Scheduled

A study of theories and research on the functional organization of the brain and the impact of various neuropathological processes on cognitive functioning. Behavioral approaches to neuropsychological rehabilitation are presented, along with instruction and practice in standardized approaches to neuropsychological evaluation. *Prerequisites:* PSY 6320, PSY 6336, and admission to a graduate program with a major in Psychology.

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. *Prerequisite:* 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 6 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 [3-0]

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 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.

* NASPAA Area B: Public Policy Analysis

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.

* 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 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: Admission to the MBA Program.

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. The diagnosis, prognosis and vocational implications of various disabilities will be presented.

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 6380 Special Topics in Rehabilitation [3-0]

Selected topics in rehabilitation. May be repeated for a maximum of 6 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 1 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 7900 Internship [9-0]

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 1 hour-per-week seminar and group supervision meeting. *Prerequisites:* Completion of all required coursework and practicum or program approval.

Interdisciplinary Science

PHYS 5304 Physics by Inquiry I [3-3]

As Scheduled

Physics by Inquiry I 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 underprepared 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.

PHYS 5405 Physics by Inquiry II [3-3]

As Scheduled

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 underprepared 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.

PHYS 6400 Astronomy by Sight

As Scheduled

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 underprepared 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.

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 Advanced 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:* 3 hours of undergraduate statistics or consent of instructor.

SOCI 6301 Advanced Sociological Theory [3-0]

As Scheduled

Examination of selected classical and contemporary sociological theories. *Prerequisite:* 3 hours of undergraduate sociological theory or consent of instructor.

SOCI 6302 Advanced Research Methods [3-0]

As Scheduled

Theory and application of quantitative and qualitative research methods to sociological data. *Prerequisites:* 3 hours of graduate statistics and 3 hours of undergraduate research methods or consent of instructor.

SOCI 6303 Advanced Sociology Topics [3-0]

As Scheduled

Graduate seminar devoted to investigative analysis and discussion of significant topics in contemporary sociology. Topics include organization, stratification, deviance, demography, social psychology, family, education and urbanization. May be repeated for a maximum of 9 hours credit as topics vary.

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 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 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 9 hours credit as topics vary.

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:* 9 hours of Sociology or consent of instructor.

SOCI 6354 The Family and Society [3-0]

As Scheduled

This course will examine 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 9 hours credit as topics vary.

SOCI 6365 Issues in Urban Society [3-0]

As Scheduled

This course will examine many of the social problems facing contemporary Urban America, such as poverty, ethnic conflicts and overpopulation. A special emphasis will be given to changes in the traditional urban core to suburban settings, and the current transformation of our region from a rural to an urban society.

SOCI 7300 Thesis I

No credit assigned until thesis has been completed and filed.

SOCI 7301 Thesis II

No credit assigned until thesis has been filed.

SOCI 7302 Independent Research I

Directed research in which the student writes a journal article or manuscript in lieu of the thesis. *Prerequisite:* Consent of instructor.

SOCI 7303 Independent Research II

Directed research in which the student writes a journal article or manuscript in lieu of the thesis. *Prerequisite:* Consent of instructor.

Social Work

SOCW 6300 Human Behavior and the Social Environment I [3-0]

As Scheduled

This course is the first in a sequence of two that provides understanding of human behavior and social environment from an ecosystemic and value-based perspective, and as applicable in social work practice. Content includes theories and knowledge of human, bio-psycho-social development, and that of the range of social systems (families, groups, organizations, institutions and communities) in which individuals live. The focus is on understanding human behavior and social environment of persons from infancy, through adolescence to young adulthood. *Prerequisites:* Graduate standing with admission to the MSSW Program.

SOCW 6301 Human Behavior and the Social Environment II [3-0]

As Scheduled

This course is the first in a sequence of two that provides understanding of human behavior and social environment from an ecosystemic and value-based perspective, and as applicable in social work practice. Content includes theories and knowledge of human, bio-psycho-social development, and that of the range of social systems (families, groups, organizations, institutions and communities) in which individuals live. The focus is on understanding human behavior and social environment of persons from young adulthood to old age and death. *Prerequisites:* Graduate standing with admission to the MSSW Program and SOCW 6300.

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 and/or permission of the instructor.

SOCW 6321 Generalist Social Work Practice I [3-0]*As Scheduled*

The course is an introductory course in generic 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*

The course is designed to provide a framework for systematic study of components and issues involved in the generalist practice of social work with groups in generic practice settings. This course prepares the student to become familiar with the processes involved in group formation as well as ongoing processes of assessment, intervention and evaluation. *Prerequisites:*

Graduate standing with admission to the MSSW Program and/or permission of the instructor.

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/or permission of the instructor.

SOCW 6330 Advanced Family Practice I [3-0]*As Scheduled*

Emphasis on theories, concepts and skills of social work intervention with families. Special attention is given to comparative theories of intervention, with an emphasis on developing practice knowledge and skills in the assessment of family situations, goal setting, contracting, models of intervention and outcome assessment. *Prerequisites:* Completion of foundation curriculum or admission into advanced standing program.

SOCW 6331 Advanced Family Practice II [3-0]*As Scheduled*

Theories, concepts and skills of family intervention. Special emphasis on the assessment, intervention and evaluation of the impact of culture and environment on family functioning. Development of an understanding of intervention with content on appreciating and using cultural diversity among family systems, such as variations in group dynamics, decision making and adaptation, as well as understanding the nature of environmental factors, such as chronic poverty and societal oppression, on family functioning. Analytical and interactional skills for helping and empowering people, focused on family preservation and the use of a strengths perspective model. *Prerequisites:* Concurrent enrollment in the second-year field education placement.

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

The course focuses on understanding and evaluating theoretical and empirical knowledge of psychosocial well-functioning, disfunctioning and pathology in the behavior of individuals. A critical analysis of the concepts of mental illness, psychopathology and behavior disorders and the use of DSM IV, ICD-10, PIE taxonomies and their use by social workers.

Prerequisite: Concurrent enrollment in the second-year field education placement.

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 6670 Field Practicum I [6-0]
As Scheduled

Supervised professional internship of 400 clock hours for students in approved and affiliated private or voluntary or governmental, and profit or non-profit social services agencies providing experiential instruction and learning. *Prerequisites:* Approval of the Field Education Coordinator.

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. *Prerequisite:* 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 Eldercare [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.

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 6975 Advanced Field Practicum II [9-0]

As Scheduled

Supervised advanced professional internship of 500 clock hours for students in approved and affiliated private or voluntary or governmental, and profit or non-profit social services agencies providing experiential instruction and learning. *Prerequisites:* Approval of the Field Education Coordinator.

Spanish

SPAN 6307 Advanced Spanish Grammar and Composition for the Classroom Teacher [3-0]

As Scheduled

An examination of the Spanish language concerns of public educators as applicable to the elementary classroom. Skills and knowledge in basic communication, its theoretical principles and the varieties of language function and style in the school and communities are elements of this study. A strong application to the Spanish of the bilingual classroom is stressed.

SPAN 6313 History of the Spanish Language [3-0]

As Scheduled

A detailed study of the evolution of the Spanish language from Latin to contemporary Spanish.

SPAN 6339 Special Studies in Spanish-American Literature [3-0]

As Scheduled

Special topics from the field of Spanish-American literature. This course may be taken three times as the topic varies. *Prerequisite:* Graduate standing.

SPAN 6341 Special Studies in Spanish Literature [3-0]

As Scheduled

Special topics from the field of Spanish literature. This

course may be taken three times as the topic varies. *Prerequisite:* Graduate standing.

SPAN 6344 Problems and Issues Related to Language [3-0]

As Scheduled

An examination of Spanish historical linguistics, Hispanic phonology, Spanish-English contrastive analysis and Spanish dialectology. Selected topics on language psychology and acquisition will be discussed. *Prerequisite:* Graduate standing.

SPAN 6345 Latino Literature in the U.S. [3-0]

As Scheduled

In this course, students will read representative works of Puerto Rican, Cuban and Chicano writers in the United States. Students will explore issues of culture, ethnicity and identity in the works of Latino writers writing in Spanish such as: Montes-Huidobro, Hinojosa, René Marquez, Rafael Sánchez, Méndez, Mellizo, etc.

SPAN 6346 Special Studies in Spanish Civilization [3-0]

As Scheduled

An examination of the culture and lifestyle of the Spanish people with emphasis on the historical, intellectual, artistic and social development of contemporary Spain. Readings, discussions and audio-visual materials will be presented and viewed. *Prerequisite:* Graduate standing.

SPAN 6347 Special Studies in Grammar and Composition [3-0]

As Scheduled

An intensive study of Spanish grammar with special work on problem areas such as mood, syntax, orthography and punctuation. This course will also offer the opportunity of improving Spanish writing skills through practice, of developing an awareness of style and of making the student conscious of the differences between the written and spoken language. *Prerequisite:* Graduate standing.

SPAN 6350 Special Topics in Spanish Linguistics [3-0]

As Scheduled

Special topics oriented to the field of Spanish linguistics (Applied Linguistics, Sociolinguistics, Psycholinguistics).

SPAN 7300 Thesis

SPAN 7301 Thesis

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 3 hours of lecture per week.

[2-3] The class will meet for 2 hours of lecture and 3 hours of laboratory per week.

[3-0-12] The class will have 3 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 9 hours of credit during a regular semester, or at least 4 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 6 hours of credit during the regular semester or 3 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 1 hour. The majority of classes meet three periods or their equivalent each week and carry 3 hours of credit. Two or 3 laboratory hours per week are usually required for 1 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 9 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 4 hours, with up to 9 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 in

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.

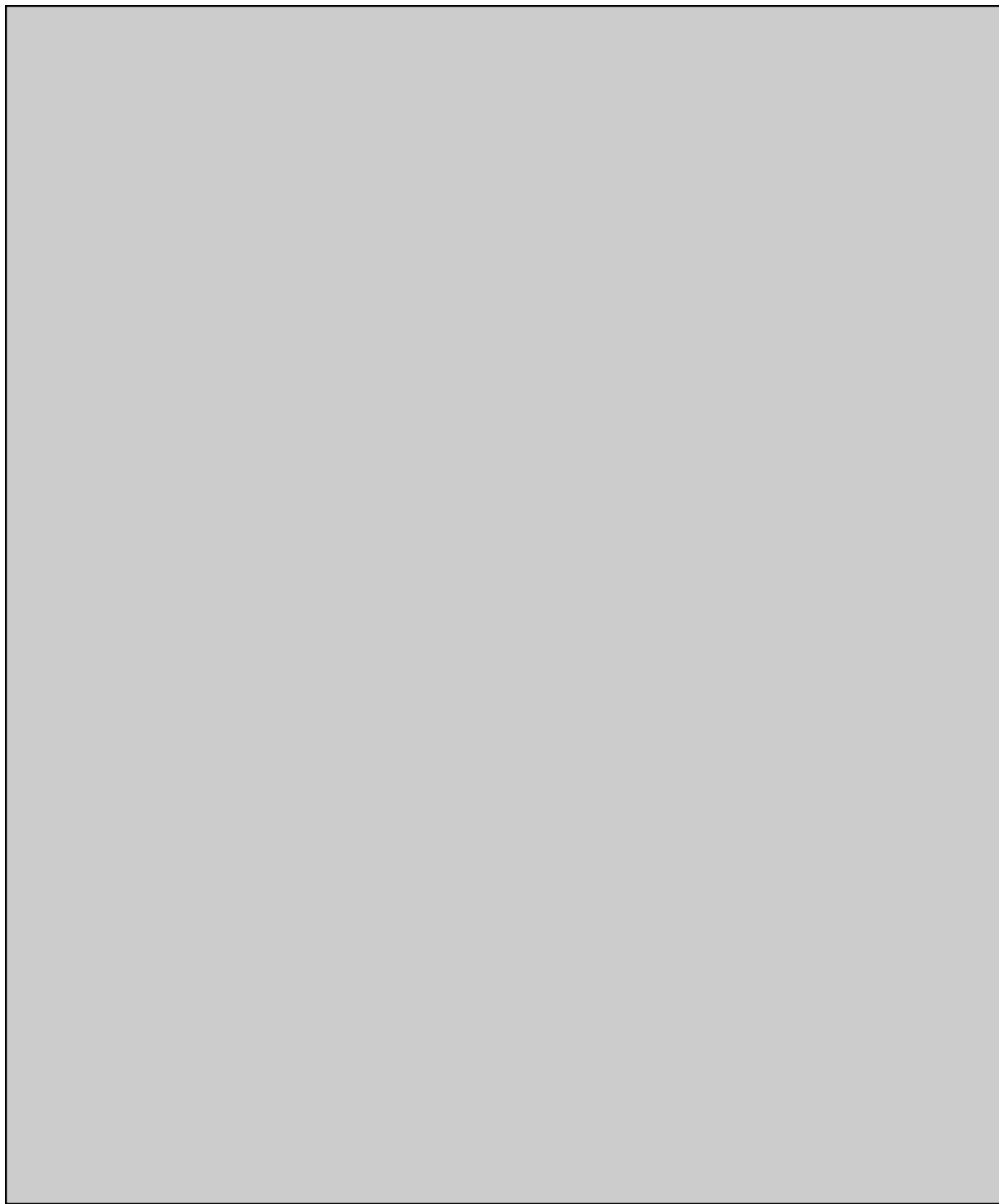
Summer Session

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.

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Faculty Listing

Abraham, John P., *Associate Professor*, Department of Computer Science; Networking; Ed.D., University of Houston, 1986.

Adair, Penelope, *Associate Professor*, Department of History and Philosophy; Medieval History, World History; Ph.D., University of California at Santa Barbara, 1993.

Ahmad, Hassan, *Associate Professor*, Department of Chemistry; Biochemistry; Ph.D., Aligarh Muslim University, 1983.

Aldridge, James W., Jr., *Professor*, Department of Psychology and Anthropology; Psychology; Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

Alexander, Steven A., *Assistant Professor*, Department of Physics and Geology; Gamma Ray Analysis; Ph.D., The University of Texas at Austin, 1982.

Allison, Terry C., *Professor*, Department of Biology; Parasitology, Marine Zoology; Ph.D., Texas A&M University, 1967.

Alvarado, Victor, *Professor*, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Anderson-Mejias, Pamela, *Associate Professor*, Department of English; ESL, Linguistics, Ph.D.

Arévalo, Rodolfo, *Professor*, Department of Social Work; Ph.D., University of Michigan, 1973.

Avellano, George, *Associate Vice President for Academic Affairs and Graduate Programs, Professor*, Department of Management, Marketing and International Business; Marketing; Ph.D., University of Oklahoma, 1975.

Barnett, Gary, *Assistant Professor*, Department of Music, Piano, Ethnomusicology; DMA, University of Kansas, 2000.

Bastida, Elena, *Professor and Chair*, Department of Sociology; Aging, Theory, Gender Roles; Ph.D., University of Kansas, 1979.

Behar, Stella, *Associate Professor*, Department of Modern Languages and Literature; 20th Century French Literature, French Studies, French Literature Methodology, Theater, History of Arts; Ph.D., University of California at Los Angeles, 1991.

Bhatti, Mohammed I., *Associate Professor and Chair*, Department of Physics and Geology; Atomic and Molecular Physics; Ph.D., University of Notre Dame, 1987.

Bokina, John, *Professor*, Department of Political Science; Political Theory, Western and Eastern Europe; Ph.D., University of Illinois, 1979.

Bose, Subhash C., *Professor and Chair*, Department of Manufacturing Engineering; Computer-Aided Manufacturing, Robotics and Stochastic Modeling and Control; Ph.D., University of Wisconsin-Madison, 1987.

Brazier, Pearl W., *Associate Professor*, Department of Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brown, Cynthia, *Assistant Professor*, Economics and Finance; Business Administration, Finance, Economics; Ph.D., The University of Texas-Pan American, 1998.

Brown, Lenard, *Assistant Professor*, Department of Art, Painting and Printmaking; MFA, The Ohio State University, 1997.

Browne, Peter E., *Associate Professor*, Department of Modern Languages and Literature; Spanish; Ph.D., University of Nebraska, 1993.

Brush, Timothy, *Professor*, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Buckman, Kenneth L., *Associate Professor*, Department of History and Philosophy; Philosophy; Continental

Philosophy, Oriental Philosophy, Social Philosophy, 19th and 20th Century Philosophy; Ph.D., Southern Illinois University, 1990.

Burns, Jo Ann Mitchell, Professor, Department of Educational Psychology; Special Education, Educational Diagnostician, School Psychology; Ph.D., University of Oklahoma, 1979.

Canty, Dean R., Associate Professor, Department of Music; High Brass; University Band Director, Jazz Ensemble Director; DMA, The University of Texas at Austin, 1980.

Carlson, Ralph, Professor, Department of Educational Psychology; Psychology (Quantitative Methods, Statistics, Theories of Personality); Ph.D., University of Houston, 1974.

Cavazos, Alonzo, Assistant Professor, Department of Social Work; Clinical Social Work, Administration; Ed.D., University of Houston, 1994.

Chen, Zhixiang, Associate Professor, Department of Computer Science; Theoretical Computer Science; Ph.D., Boston University, 1996.

Contreras, Victoria, Associate Professor and Graduate Advisor, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Texas at Austin, 1989.

Cortes, Angelica, Assistant Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., University of Bradford, 1997.

Dabrowski, Peter, Assistant Professor, Department of Music; Valley Symphony Orchestra Conductor, DMA, Northwestern University.

Daniel, Clay L., Associate Professor, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark L., Associate Professor and Graduate Program Director, Department of Criminal Justice; Police Organization, Statistics, Research Methods; Ph.D., The University of Texas at Arlington, 1989.

Davila, Alberto, Professor and Chair, Department of Economics, Finance and General Business; Economics; Ph.D., Iowa State University, 1982.

Davis, Wendell R., Assistant Professor, Department of Music; Voice, Musical Theater; DM, Indiana University, 1985.

de los Santos, Gilberto, Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., The University of Texas at Austin, 1972.

Dearth, Daniel K., Associate Professor and Chair, Department of Criminal Justice; Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence; Ph.D., Sam Houston State University, 1984.

Debnath, Lokenath, Professor and Chair, Department of Mathematics; Pure and Applied Mathematics, Mathematical Physics, Solid and Fluid Mechanics, Ordinary and Partial Differential Equations, Integral Transforms, Special Functions, Wavelets and Signal Analysis; Ph.D. (Pure Math), University of Calcutta, 1965; Ph.D. (Applied Math), University of London, 1967.

DeYoe, Hudson, Assistant Professor, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.

Dominguez, Sylvia M., Professor, Department of Modern Languages and Literature; Spanish; Ph.D., University of Arizona, 1971.

Ebaseh-Onofa, Benjamin O., Associate Professor, Department of Mathematics; Statistics; Ph.D., Texas A&M University, 1988.

Edwards, Robert J., Professor, Department of Biology; Ichthyology, Ecology, Population Biology; Ph.D., The University of Texas at Austin, 1980.

Ellard, Charles J., Professor, Department of Economics, Finance and General Business; Economics; Ph.D., University of Houston, 1974.

Estrada, Veronica I., Assistant Professor, Department of Curriculum and Instruction; English Communication Art, English, Education Studies; Ph.D., The Ohio State University, 1997.

Ethridge, Philip, Associate Professor, Department of Criminal Justice; Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law; Ph.D., Sam Houston State University, 1990.

Farooqui, Mohammed Y., *Professor and Chair*, Department of Biology; Physiology, Toxicology, Entomology, Cell Biology; Ph.D., University of Illinois, 1979.

Faubion, Michael L., *Associate Professor*, Interim Chair, Department of History and Philosophy; History; Diplomatic, Military and Environmental History; Ph.D., Texas Tech University, 1992.

Faulkes, Zen, *Assistant Professor*, Department of Biology; Neurobiology and Ethology; Ph.D., University of Victoria, 1996.

Field, Philip S., *Associate Professor*, Department of Art; Printmaking, Painting, Aesthetics; MFA, Rhode Island School of Design, 1965.

Fielding, Cheryl Wyatt, *Assistant Professor*, Department of Educational Psychology; Ph.D., Texas Woman's University, 2000.

Foltz, Heinrich D., *Associate Professor*, Department of Engineering; Electrical Engineering; Ph.D., The University of Texas at Austin, 1993.

Fowler, Richard H., *Professor and Interim Chair*, Department of Computer Science; Interactive Systems; Ph.D., University of Houston, 1980.

Freeman, Robert A., *Associate Professor*, Department of Engineering; Mechanical Engineering; Ph.D., University of Florida, 1985.

Friedman, Bruce

Fuentes, Arturo A., *Assistant Professor*, Department of Mechanical Engineering, Dynamic Response Analysis, Engineering Education; Ph.D., Rice University, 2000.

Ghanem, Salma, *Associate Professor and Chair*, Department of Communication; Journalism; Ph.D., The University of Texas at Austin, 1996.

Glazer, Mark, *Professor*, Department of Psychology and Anthropology; Folklore, Anthropological Theory; Ph.D., Northwestern University, 1973.

Gomez, Leo, *Assistant Professor*, Department of Curriculum and Instruction; Philosophy, Curriculum and Instruction, Bilingual/ESL; Ph.D., Texas A&M University, 1994.

Gonzalez, Genaro, *Professor*, Department of Psychology and Anthropology; Psychology; Social Psychology, Cross-Cultural Psychology; Ph.D., University of California at Santa Cruz, 1982.

Gonzalez, Miguel A., *Assistant Professor*, Department of Manufacturing Engineering; Training Simulators, Integrated Logistics Support, Manufacturing Systems, Work Science and Ergonomics, Applied Operations Research; Ph.D., University of Houston, 1995.

Greene, Walter E., *Professor*, Department of Management, Marketing and International Business; Management; Ph.D., PHR, University of Arkansas, 1976.

Grossman, Morley K., *Associate Professor*, Department of Music; Piano; DMA, Indiana University, 1982.

Guerra, Ramon S., *Assistant Professor*, Department of Sociology; Japanese Society, Mexican-Americans, Ethnicity and Religion; Ph.D., Southern Methodist University, 1989.

Guerra, Dahlia, *Associate Professor and Chair*, Department of Music; Piano and History of Mexican Folk Music; DMA, University of Oklahoma, 1997.

Guinn, Robert, *Professor and Program Coordinator*, Department of Health and Kinesiology; Health; Ph.D., Texas A&M University, 1974.

Gunn, Scott J., *Professor*, Department of Biology; Genetics, Vertebrate Zoology; Ph.D., Texas A&M University, 1986.

Hamilton, Lee, *Associate Professor*, Department of English; 19th Century British Literature, Bibliography; Ph.D., Louisiana State University, 1982.

Hannan, A.H.M. Abdul, *Assistant Professor*, Department of Physics and Geology; Nuclear Reactor Physics and Gamma Ray Analysis; Ph.D., University of London-Imperial College, 1978.

Heller, William, *Associate Professor*, Department of Mathematics; Fourier Analysis, Shannon Sampling Theory, Wavelets, Nonharmonic Fourier Series, Signal and Image Processing; Ph.D., University of Maryland, 1991.

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Henggeler, Paul R., *Associate Professor*, Department of History and Philosophy; Recent U.S. History, American Presidency; Ph.D., Bowling Green State University, 1989.

Henry, Brad, *Associate Professor*, Department of Biology; Aquatic Entomology, Ecology; Ph.D., Texas A&M University, 1989.

Himmel, Kelly F., *Assistant Professor*, Department of Sociology; Methodology, Community, Social Change; Ph.D., The University of Texas at Austin, 1995.

Hinojosa, Jose R., *Associate Professor*, Department of Political Science; Public Administration, Minority Politics; Ph.D., University of Notre Dame, 1980.

Hinojosa, Servando, *Assistant Professor*, Department of Psychology and Anthropology.

Huerta, Maria Carolina, *Professor and Chair*, Department of Nursing; Adult Education; Ed.D., Texas A&M University, 1990.

Hume, Evelyn, *Associate Professor*, Department of Accounting and Business Law; Accounting; Ph.D., Louisiana State University, 1988.

Hyslin, Richard P., *Professor*, Department of Art; Ceramics, Sculpture, Drawing; MA, University of New Mexico, 1968.

Ibrahim, Elamin, *Assistant Professor*, Department of Chemistry; Analytical Chemistry; Ph.D., Mississippi State University, 1995.

James-Aldridge, Valerie G., *Associate Professor*, Department of Psychology and Anthropology; Primate Social Behavior; Ph.D., Oklahoma State University, 1975.

John, Eugene B., *Assistant Professor*, Department of Engineering; Electrical Engineering; Ph.D., Pennsylvania State University, 1995.

Johnson, Robert, *Associate Professor*, Department of English; American Literature, Southern Women Writers; Ph.D., University of Southern California, 1994.

Jones, Robert E., Jr., *Assistant Professor*, Department of Engineering; Mechanical Engineering; Ph.D., Texas A&M University, 1990.

Jorgensen, Layne, *Professor and Chair*, Department of Health and Kinesiology; Biomechanics, Research Methods; Ph.D., Louisiana State University, 1971.

Jou, Jerwen, *Professor*, Department of Psychology and Anthropology; Psychology; Cognitive Psychology; Ph.D., Kansas State University, 1990.

Judd, Frank W., *Professor*, Department of Biology; Ecology, Ecological Physiology, Herpetology, Mammalogy; Ph.D., Texas Tech University, 1973.

Knobel, Roger A., *Associate Professor*, Department of Mathematics; Differential Equations, Applied Mathematics; Ph.D., Rensselaer Polytechnic Institute, 1991.

Kuang, Anxiu, *Assistant Professor*, Department of Biology; Ph.D., Auburn University, 1991.

LaPrade, Douglas E., *Assistant Professor*, Department of English; 20th Century American Literature; Ph.D., University of Illinois, 1988.

Lawrence-Fowler, Wendy A., *Vice President for Research, Professor*, Department of Computer Science; Databases, Large Open Information Systems, Information Retrieval, Artificial Intelligence; Ph.D., The Ohio State University, 1983.

LeMaster, Jane, *Associate Professor and Director of Graduate Studies*, Department of Management, Marketing and International Business; Management; Ph.D., University of North Texas, 1994.

Liebowitz, Stephen W., *Associate Professor*, Department of Sociology; Social Psychology, Statistics; Ph.D., University of Missouri-Columbia, 1979.

Llanes, Jose R., *Professor*, Department of School Administration and Supervision; DSS, Universidad de la Habana, 1963.

Lonard, Robert I., *Professor*, Department of Biology; Plant Taxonomy, Grass Systematics; Ph.D., Texas A&M University, 1970.

Lozano, Karen, *Assistant Professor*, Department of Mechanical Engineering; Polymer Processing, Composite Materials, Nano-Fiber/Tube Reinforced Composites; Ph.D., Rice University, 1999.

Mahdi, Hashim S., *Associate Professor*, Department of Engineering; Mechanical Engineering; Computational Methods in Thermal and Fluid Systems; Ph.D., University of Arizona, 1989.

Mahmood, Akhtar H., *Assistant Professor*; Department of Physics and Geology; Experimental High Energy Physics; Ph.D., State University of New York-Albany, 1998.

Maril, Robert Lee, *Professor and Chair*, Department of Sociology; Rural Sociology, Poverty, U.S.-Mexico Borderlands; Ph.D., Washington University, 1973.

Marini, Irmo, *Associate Professor*, Rehabilitative Services Program; Certified Rehabilitation Counselor; Ph.D., Auburn University, 1992.

Martinez, Jose Maria, *Assistant Professor*, Department of Modern Languages and Literature; Hispanic Literature; Ph.D., Universidad de Valladolid, Spain, 1991.

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Materon, Luis A., *Assistant Professor*, Department of Biology; Soil Microbiology, Food Microbiology, Biological Nitrogen Fixation; Ph.D., Mississippi State University, 1982.

Matthews, Linda, *Assistant Professor*, Department of Management, Marketing and International Business; Management; Ph.D., University of Washington, 1996.

Maville, Janice A., *Professor*, Department of Nursing; Ed.D., Texas A&M University, 1992.

McBride, John, *Professor and Chair*, Department of Curriculum and Instruction; Elementary, Science Education, Mathematics Education; Ed.D., University of Houston, 1977.

McCormack, Brian, *Assistant Professor*, History and Philosophy, Borderlands, Mexico, 19th Century; Ph.D., University of California San Diego, 2000.

McLemore, George C., *Associate Professor*, Department of Communication; Communication Studies; Ph.D., University of Pittsburgh, 1985.

McQuillen, Jeffrey, *Assistant Professor*, Department of Communication; Communication Studies; Ph.D., University of Oklahoma, 1984.

Medrano, Hilda, *Professor*, Department of Curriculum and Instruction; Curriculum and Instruction, Reading and Language Arts; *Dean*, College of Education; Ph.D., The University of Texas at Austin, 1985.

Meline, Timothy J., *Professor*, Department of Communication Sciences and Disorders; Dysphasia, Language; Ph.D., University of Illinois-Urbana, 1976.

Menchaca, Velma Dora, *Associate Professor and Chair*, Department of Educational Leadership; BS, Pan American University, 1979; MEd, Southwest Texas State University; Ph.D., Texas A&M University, 1991.

Minor, Michael, *Professor and Chair*, Department of Management, Marketing and International Business; Marketing; Ph.D., Vanderbilt University, 1987.

Mitchell, Jo Ann, *Professor*, Department of Educational Diagnostician; Special Education, Educational Psychology, School Psychology; Ph.D., University of Oklahoma, 1979.

Mizener, Charlotte, *Associate Professor*, Department of Music; Harp, Music Education; Ph.D., The University of Texas at Austin, 1990.

Monta, Marian F., *Professor*, Department of Communication; Theatre/TV/Film; Ph.D., Cornell University, 1971.

Montgomery, Gary T., *Professor*, Department of Psychology and Anthropology; Developmental Psychology, Psychophysiology; Ph.D., Texas Tech University, 1972.

Moyer, Nancy J., *Professor and Chair*, Department of Art; Drawing, Metal/Jewelry Design, Art Education; Ph.D., Southern Illinois University, 1970.

Munn, A. Christopher, *Associate Professor*, Department of Music; Music Theory, Music History; University Choir Director; DMA, University of Oklahoma, 1984.

Munn, Vivian, *Associate Professor*, Department of Music; Voice, Music Theory; DMA, University of Oklahoma, 1990.

Murray, K. Daniel, *Assistant Professor*, Department of Biology; Molecular Biology; Ph.D., The University of Texas at Dallas, 1995.

Nambiar, Rajiv V., *Associate Professor*, Department of Manufacturing Engineering; Computer-Aided Design, Manufacturing Processes; Ph.D., The University of Texas at Arlington, 1989.

Nasif, Ercan, *Associate Professor and Chair*, Department of Management, Marketing and International Business; Management; Ph.D., University of North Texas, 1988.

Newman, Beatrice, *Professor*, Department of English; Rhetoric and Composition, 19th Century British

Literature, Linguistics; Ph.D., Texas A&M University, 1981.

Newman, Jane, *Assistant Professor*, Rehabilitative Services Program; Certified Rehabilitation Counselor, Licensed Personal Counselor; Ph.D., University of Arizona, 1993.

O'Neil, Lorne W., *Associate Professor*, Department of Music; Woodwinds; DMA, University of Minnesota, 1990.

Pagan, Jose A., *Associate Professor*, Department of Economics, Finance and General Business; Economics; Ph.D., University of New Mexico, 1995.

Paredes, Miguel, *Professor*, Department of Mathematics; Mathematical Economics, Mathematical Modeling; Ph.D., University of Utah, 1985.

Pearson, Thomas D., *Associate Professor*, Department of History and Philosophy; Ethics, Philosophical Theology, Social Ethics, History/Journalism; Ph.D., Southern Illinois University, 1994.

Perez, Ricardo, *Professor*, Department of Curriculum and Instruction; Curriculum and Instruction, Bilingual Education and Social Sciences; Ph.D., University of Michigan, 1979.

Phillips, Richard, *Assistant Professor*, Department of Art; Art History, Ph.D., The University of Texas at Austin, 1997.

Poelzer, Harold, *Associate Professor*, Department of Educational Psychology; Educational Psychology, Gifted Education; Ph.D., Purdue University, 1994.

Polinard, J. L., *Professor and Chair*, Department of Political Science; Public Law, Minority Politics; Ph.D., University of Arizona, 1970.

Pozorski, Shelia, *Professor*, Department of Psychology and Anthropology; New World Archaeology, Archaeological Method and Theory, Ethnobiology; Ph.D., The University of Texas at Austin, 1976.

Pozorski, Thomas, *Professor*, Department of Psychology and Anthropology; New World Archaeology, South American Culture, Complex Societies; Ph.D., The University of Texas at Austin, 1976.

Prock, Jerry D., *Professor*, Department of Economics, Finance and General Business; Economics; Ph.D., Arizona State University, 1970.

Raajpoot, Uzzar A., *Associate Professor*, Department of Sociology; Statistics, Methods, Demography; Ph.D., University of Oregon, 1991.

Radford, Nola B., *Associate Professor*, Department of Communication Sciences and Disorders; Language, Multicultural Issues; University of Memphis, 1992.

Raimo, John, *Professor*, Department of Music; Piano, Music Literature; DMA, University of Rochester, New York, 1960.

Reed, Bruce J., *Associate Professor and Program Coordinator*, Rehabilitative Services Program; Certified Rehabilitation Counselor, Certified Vocational Evaluator; Ph.D., University of Northern Colorado, 1993.

Reed, Michael D., *Professor*, Department of English; Colonial and 19th Century American Literature, Psychoanalytic Criticism, Logic; Ph.D., University of Oregon, 1974.

Reeve, Robert, *Professor*, Department of Curriculum and Instruction; Curriculum and Instruction, Science Education, Biology, Educational Research; Ph.D., Florida State University, 1966.

Reid, Charles R., *Assistant Professor*, Rehabilitative Services; Certified Rehabilitation Counselor; Ph.D., The University of Arizona, 1997.

Richardson, D. Chad, *Professor*, Department of Sociology; Borderlands Studies, Sociology of Education, Complex Organizations; Ph.D., The University of Texas at Austin, 1975.

Rocha, Rodolfo, *Professor, Dean*, College of Arts and Humanities; Department of History and Philosophy; History; Borderlands, Chicano, Mexico, Texas; Ph.D., Texas Tech University, 1981.

Rodriguez, Ana Maria, *Assistant Vice-President for Undergraduate Studies, Associate Professor*, Department of Educational Psychology; Guidance and Counseling; Ed.D., University of Houston, 1976.

Romero, Hector R., *Professor*, Department of Modern Languages and Literature; Spanish Literature; University of Illinois-Urbana, 1970.

Rydl, Lester M., *Associate Professor and Chair*, Department of Computer Information Systems and Quantitative Methods; Quantitative Methods; CDP, Ph.D., Texas A&M University, 1978.

Saavedra, Dora E., *Associate Professor*, Department of Communication; Communication Studies; Ph.D., University of Kansas, 1994.

Salmon, Roberto M., *Professor*, Department of History and Philosophy; History; U.S. Southwest, Chicano Studies; Ph.D., University of New Mexico, 1978.

Sargent, John, *Assistant Professor*, Department of Management, Marketing and International Business; Management; Ph.D., University of Washington, 1994.

Schneider, Steven P., *Professor and Chair*, Department of English; Twentieth Century Literature, Poetry, Multicultural Literature; Ph.D., University of Iowa, 1986.

Semper, Louis Thomas, *Associate Professor and Program Coordinator*, Department of Health and Kinesiology; Physiology of Exercise, Secondary School Methods; Ph.D., Texas A&M University, 1971.

Smith, Brent, *Lecturer*, Music Department, Violoncello, Music Theory; DA, University of Northern Colorado, 2000.

Soydemir, Gokce, *Assistant Professor*, Department of Economics, Finance and International Business; Finance; Ph.D., Claremont Graduate School, 1997.

Stanley, Jack, *Professor*, Department of Communication; Theatre/TV/Film, Journalism; Ph.D., The University of Michigan, 1973.

Sturges, David L., *Associate Professor*, Department of Management, Marketing and International Business; Management; Management Communications; Ph.D., University of North Texas, 1988.

Summy, Kenneth R., *Assistant Professor*, Department of Biology; Remote Sensing Technology; Texas A&M University, 1983.

Taylor, Monty B., *Professor*, Department of Mathematics; Commutative Algebra, Multiplicative Lattices; Ph.D., University of Houston, 1988.

Tevis, Martha, *Professor*, Department of Curriculum and Instruction; History and Philosophy of Education, Cultural Foundations of Education, Latin; Ph.D., The University of Texas at Austin, 1967.

Timmer, Douglas H., *Assistant Professor*, Department of Manufacturing Engineering; Applied Statistics, Statistical Process Control, Design of Experiments, Reliability, Total Quality Management; Ph.D., Texas A&M University, 1993.

Tschoepe, Gary J., *Associate Professor*, Department of Political Science; Public Policy and Administration, Policy Analysis and Program Evaluation; Ph.D., University of Houston, 1992.

Tucker, Barbara A., *Professor and MSN Coordinator*, Department of Nursing; Ph.D., Texas A&M University, 1988.

Tucker, Wallace E., *Assistant Dean*, College of Arts and Humanities, *Professor*, Department of Music; Low Brass; DMA, University of North Texas, 1987.

Vasquez-Parraga, Arturo, *Associate Professor*, Department of Management, Marketing and International Business; Marketing; Ph.D., Texas Tech University, 1990.

Vassberg, Liliane, *Associate Professor*, Department of Modern Languages and Literature; Applied Linguistics, English, French; Ph.D., University of Texas at Austin, 1989.

Villalobos, Maria Cristina, *Assistant Professor*, Department of Mathematics; Linear and Nonlinear Optimization, Applied Mathematics; Ph.D., Rice University, 2000.

Villarreal, John R., *Professor and Interim Dean*, College of Science and Engineering, Department of Chemistry; Physical Chemistry; Ph.D., Texas A&M University, 1976.

Villas, Paul, *Associate Professor*, Department of Health and Kinesiology; Health Education, Public Health; Ed.D., University of Tennessee, 1988.

Villereal, Gary L., *Associate Professor*, Director of Master of Science in Social Work Program, Department of Social Work; Ph.D., University of Pittsburgh, 1991.

Vincent, Vern C., *Professor*, Department of Computer Information Systems and Quantitative Methods; Quantitative Methods; Ph.D., University of Northern Colorado, 1972.

Von Kuster, Lee N., *Visiting Assistant Professor*, Department of Mathematics; Mathematics Education, Mathematics; Ed.D, University of Montana, 1971.

Watkins, William, *Professor*, Department of Mathematics; Topology, Semigroups, Microcomputers; Ph.D., University of Wyoming, 1980.

Weaver, Michael K., *Associate Professor*, Interim Chair, Department of Modern Languages and Literature; History; British, Modern European; Ph.D., University of North Carolina at Chapel Hill, 1989.

Wiley, Eric, *Assistant Professor*, Communication; Theatre/TV/Film; Ph.D., Louisiana State University, 1999.

Wilson, Bruce K., *Associate Professor*, Department of Nursing; Ph.D., University of North Texas, 1987.

Winkel, Mark H., *Associate Professor*, Department of Psychology and Anthropology; Psychology; Cognitive Social Psychology, Law and Psychology; Ph.D., Oklahoma State University, 1982.

Wissinger, Charles, *Assistant Professor*, Department of Art; MFA, The Ohio State University, 1970.

Wrinkle, Robert, *Professor*, Department of Political Science; Public Policy, Urban Politics, Methodology; Ph.D., University of Arizona, 1967.

Zeng, Liang, *Assistant Professor*, Department of Educational Psychology; Educational Research Methodology; Ph.D., Theoretical Physics, Zhejiang University, P.R. China, 1998.

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