

THE UNIVERSITY OF TEXAS PAN AMERICAN



2011-2013 Graduate Catalog



The University of Texas-Pan American

2011-2013 Graduate Catalog

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

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The Council on Rehabilitation Education (CORE)

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

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

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The University of Texas-Pan American reserves the right to withdraw courses at any time and 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, citizenship, disability, gender (including sexual harassment), sexual orientation, gender expression, and gender identity or other characteristics that lawfully cannot be the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership practices of registered student organizations.

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

To the extent provided by applicable law, no person shall be excluded from participation in, denied the benefits of, or

be subject to discrimination under any program or activity sponsored or conducted by The University of Texas System or any of its component institutions on the basis of race, color, national origin, religion, sex, age, veteran status, disability, gender, sexual orientation, gender expression, or gender identity.

Inquiries or complaints may be directed to the immediate supervisor or to the compliance officer in Room 5.101, Student Services Building, telephone (956) 665-2121; the chair of the department; or the Dean of Students in Room 104, University Center; telephone (956) 665-2260. Inquiries concerning ADA should be directed to the Director of Disability Services in Room 322, University Center, telephone (956) 665-7005.

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 "Policy Concerning Accommodations for Individuals with Disabilities" 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 2011-2013

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

For ACT, TSI, GRE, GMAT and other test information, contact the University Testing Center at (956) 665-7584, ext. 7585, or e-mail testing@utpa.edu.

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

Deadlines for admissions and thesis and dissertation can be found at www.utpa.edu/gradschool.

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

Fall 2011

April 4, 2011, Monday
ASSIST registration (Web) begins by classification for Fall 2011.

April 15, 2011, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2011 graduation.

August 25, 2011, Thursday
Housing move-in for students participating in Bronc Round-up. Cafeteria open for dinner.

August 27, 2011, Saturday
Housing move-in for returning students.

August 29, 2011, Monday
First day of classes.

September 5, 2011, Monday
Labor Day holiday, no classes, campus closed.
Cafeteria open..

September 14, 2011, Wednesday
Twelfth class day, census date.

September 16, 2011, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2012 graduation.

September 27, 2011, Tuesday
Last day to change to non-credit.

October 31, 2011, Monday (tentative)
ASSIST registration (Web) begins by classification for Spring, 2012

November 14, 2011, Monday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

November 23, 2011, Wednesday
Residence Halls close at 5 p.m.

November 24-26, 2011, inclusive
Thanksgiving holiday, no classes.
Cafeteria closed Thursday through Saturday.

November 27, 2011, Sunday
Residence Halls reopen at noon.
Cafeteria open for dinner only.

December 2, 2011, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2012 graduation.

December 8-9, 2011, inclusive
Study days, no classes or final examinations without written approval of the Dean

December 10-16, 2011, inclusive
Fall semester final examinations.

December 16, 2011, Friday
Residence Halls close at 6 p.m.

December 17, 2011, Saturday
Commencement exercises.

December 18, 2011, Sunday
Cafeteria open for breakfast and lunch only.

December 19, 2011, Monday
Fall final grades to be entered by faculty no later than 3 p.m.

Spring 2012

September 16, 2011, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2012 graduation.

October 31, 2011, Monday (tentative)
ASSIST registration (Web) begins by classification for Spring 2012.

January 15, 2012, Sunday
Residence Halls reopen at noon.
Cafeteria open for dinner only.
January 16, 2012, Monday
Martin Luther King Day holiday, no classes, campus closed.

Miniterm 2012

January 17, 2012, Tuesday
First day of classes.

January 20, 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2012 graduation.

February 1, 2012, Wednesday
Twelfth class day, census date.

February 15, 2012, Wednesday
Last day to change course to non-credit.

March 9, 2012, Friday
Residence Halls close for Spring Break at 5 p.m.
Cafeteria open for breakfast and lunch only.

March 10-17, 2012, inclusive
Cafeteria closed.

March 11-16, 2012, inclusive
Spring Break, no classes.

March 18, 2012, Sunday
Residence Halls reopen at noon.
Cafeteria open for dinner only.

April 9, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Fall, Miniterm, Summer I, Summer II and Summer III 2012.

April 6-7, 2012, inclusive
Easter holiday, no classes.

April 2, 2012, Monday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

April 13, 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2012 graduation.

May 3-4, 2012, inclusive
Study days, no classes or final examinations without written approval of the dean.

May 5-11, 2012, inclusive
Spring semester final examinations.

May 11, 2012, Friday
Residence Halls close at 5 p.m.
Cafeteria open for breakfast and lunch only.

May 12, 2012, Saturday
Commencement exercises.

May 14, 2012, Monday
Final grades to be entered by faculty no later than 3 p.m.

April 9, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Fall, Miniterm, Summer I, Summer II and Summer III 2012.

May 11, 2012, Friday
Housing move-in.

May 14, 2012, Monday
First day of classes.

May 15, 2012, Tuesday
Second class day, census date.

May 25, 2012, Friday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

May 28, 2012, Monday
Memorial Day holiday, no classes, campus closed.

May 30, 2012, Wednesday
Last day of classes.

May 31, 2012, Thursday
Study day, no classes or final examinations without written approval of the dean.

June 1, 2012, Friday
Miniterm final examinations.
Residence Halls close at 6 p.m.

June 4, 2012, Monday
Miniterm final grades to be entered by faculty no later than 3 p.m.

August 18, 2012, Saturday
Commencement exercises.

Summer I 2012

December 2, 2011, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2012 graduation.

April 9, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Fall, Miniterm, Summer I, Summer II and Summer III 2012.

June 1, 2012, Friday
Housing move-in.
Cafeteria open for dinner only.

June 4, 2012, Monday
First day of classes.

General Information

June 7, 2012, Thursday
Fourth class day, census date.

June 13, 2012, Wednesday
Last day to drop to change course to non-credit.

July 2, 2012, Monday
Last day to drop a course or to withdraw from the University with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

July 4, 2012, Wednesday
Fourth of July holiday, no classes, campus closed.

July 9, 2012, Monday
Summer I final examinations.
Residence Halls close at 6 p.m.
Cafeteria open for breakfast and lunch only.

July 10, 2012, Tuesday
Summer I final grades to be entered by faculty no later than 3 p.m.

August 18, 2012, Saturday
Commencement exercises.

Summer II 2012

January 20, 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2012 graduation.

April 9, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Fall, Miniterm, Summer I, Summer II and Summer III 2012.

July 10, 2012, Tuesday
Housing move-in.
Cafeteria open for dinner only.

July 11, 2012, Wednesday
First day of classes.

July 16, 2012, Monday
Fourth class day, census date.

July 20, 2012, Friday
Last day to change course to non-credit.

August 6, 2012, Monday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

August 15, 2012, Wednesday
Last day of classes.

August 16, 2012, Thursday
Study day, no classes or final examinations without written approval of the dean.

August 17, 2012, Friday
Summer II final examinations.
Residence Halls close at 6 p.m.
Cafeteria open for breakfast and lunch only.

August 20, 2012, Monday
Final grades to be entered by faculty no later than 3 p.m.

August 18, 2012, Saturday
Commencement exercises.

Summer III 2012 10-week Session

April 9, 2012 Monday (tentative)
ASSIST registration (Web) begins by classification for Fall, Miniterm, Summer I, Summer II and Summer III 2012.

June 4, 2012, Monday
First day of classes.

June 12, 2012, Tuesday
Seventh class day, census date.
July 4, 2012, Wednesday
Fourth of July holiday, no classes.

August 1, 2012, Wednesday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

August 14, 2012, Tuesday
Last day of classes.

August 15, 2012, Wednesday
Study day, no classes or final examinations without written approval of the dean.

August 16, 2012, Thursday
Summer III final examinations.

August 17, 2012, Friday
Summer III final grades to be entered by faculty no later than 3:00p.m.
August 18, 2012, Saturday
Commencement exercises.

Fall 2012

- April 9, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III, and Fall 2012.
- April 13, 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for December 2012 graduation.
- August 23, 2012, Thursday
Housing move-in for students participating in Bronc Round-up. Cafeteria open dinner.
- August 25, 2012, Saturday
Housing move-in for returning students.
- August 27, 2012, Monday
First day of classes.
- September 3, 2012, Monday
Labor Day holiday, no classes, campus closed. Cafeteria open.
- September 12, 2012, Wednesday
Twelfth class day, census date.
- September 14, 2012 Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2013 graduation.
- September 25, 2012, Tuesday
Last day to change course to non-credit.
- October 29, 2012, Monday (tentative)
ASSIST registration (Web) begins by appointment for Spring 2013.
- November 12, 2012, Monday
Last day to drop courses or withdraw from the University with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and receives whatever letter grade(s) he/she earns.
- November 21, 2012, Wednesday
Residence Halls close at 5 p.m.
Cafeteria open for breakfast and lunch only.
- November 22-24, 2012, inclusive
Thanksgiving holiday, no classes.
Cafeteria closed Thursday through Saturday.
- November 25, 2012, Sunday
Residence Halls reopen at noon.
Cafeteria open for dinner only.

December 7, 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for July 2013 graduation.

December 6-7, 2012, inclusive
Study days, no classes or final examinations without written approval of the dean.

December 8-14, 2012, inclusive
Fall semester final examinations.

December 14, 2012, Friday
Residence Halls close at 6 p.m. for winter break.
Cafeteria open for breakfast and lunch only.

December 15, 2012, Saturday
Commencement exercises.

December 17, 2012, Monday
Fall final grades to be entered by faculty no later than 3 p.m.

Spring 2013

September 14 2012, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for May 2013 graduation.

October 29, 2012, Monday (tentative)
ASSIST registration (Web) begins by classification for Spring 2013.
Admission application and document deadline for international students.

January 13, 2013, Sunday
Housing move-in begins at noon.
Cafeteria open for dinner only.

January 14, 2013, Monday
First day of classes.

January 21, 2013, Monday
Martin Luther King Day holiday, no classes, campus closed.

January 18, 2013, Friday
Deadline to file Application for Degree Form with the Office of the Registrar for August 2013 graduation.

January 30, 2013, Wednesday
Twelfth class day, census date.

February 12, 2013, Tuesday
Last day to change a course to non-credit.

March 8, 2013, Friday
Residence Halls close for Spring Break at 5 p.m.
Cafeteria open for breakfast and lunch only.

General Information

March 9-16, 2013, inclusive
Cafeteria closed.

March 10-15, 2013, inclusive
Spring Break, no classes.

March 17, 2013, Sunday
Residence Halls reopen at noon.
Cafeteria open for dinner only.

March 29-31, 2013, inclusive
Easter holiday, no classes

April 1, 2013, Monday (tentative)
ASSIST registration (Web) begins by classification for
Miniterm, Summer I, Summer II, Summer III and Fall 2013.

April 9, 2013, Tuesday
Last day to drop courses or withdraw from the University
with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and
receives whatever letter grade(s) he/she earns.

April 19, 2013, Friday
Deadline to file Application for Degree Form with the Office
of the Registrar for December 2013 graduation.

May 2-3, 2013, inclusive
Study days, no classes or final examinations without written
approval of the dean.

May 4-10, 2013, inclusive
Spring semester final examinations.

May 10, 2013, Friday
Residence Halls close at 5 p.m.
Cafeteria open for breakfast and lunch only.

May 11, 2013, Saturday
Commencement exercises.

May 13, 2013, Monday
Spring final grades to be entered by faculty no later than
3 p.m.

Miniterm 2013

April 1, 2013, Monday (tentative)
ASSIST registration (Web) begins by classification for
Miniterm, Summer I, Summer II, Summer III and Fall 2013.

May 10, 2013, Friday
Housing move-in begins for Miniterm.

May 13, 2013, Monday
First day of classes.

May 14, 2013, Tuesday
Second class day, census date.

May 24, 2013, Friday

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

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

May 27, 2013, Monday
Memorial Day holiday, no classes, campus closed.

May 30, 2013, Thursday
Last day of classes.

May 31, 2013, Friday
Miniterm final examinations.
Residence Halls close at 6 p.m.

June 3, 2013, Monday
Miniterm final grades to be entered by faculty no later than 3
p.m.

August 17, 2013, Saturday
Commencement exercises.

Summer I 2013

December 7, 2012, Friday
Deadline to file Application for Degree Form with the Office
of the Registrar for July 2013 graduation.

April 1, 2013, Monday (tentative)
ASSIST registration (Web) begins by classification for
Miniterm, Summer I, Summer II, Summer III, and Fall
2013.

May 31, 2013, Friday
Housing move-in begins.
Cafeteria open for dinner only.

June 3, 2013, Monday
First day of classes.

June 6, 2013, Thursday
Fourth class day, census date.

June 12, 2013, Wednesday
Last day to change course to non-credit.

July 1, 2013, Monday
Last day to drop courses or withdraw from the University
with a grade of DR or W recorded.
After this date student remains enrolled in course(s) and
receives whatever letter grade(s) he/she earns.

July 4, 2013, Thursday
Fourth of July holiday, no classes, campus closed.

July 5, 2013, Friday

Last day of classes.

July 8, 2013, Monday

Summer I final examinations.

Residence Halls close at 6 p.m.

Cafeteria open for breakfast and lunch only.

July 9, 2013, Tuesday

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

August 17, 2013, Saturday

Commencement exercises.

Summer II 2013

January 18, 2013, Friday

Deadline to file Application for Degree Form with the Office of the Registrar for August 2013 graduation.

April 1, 2013, Monday (tentative)

ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III and Fall 2013.

July 8, 2013, Monday

Housing move-in begins.

Cafeteria open for dinner only.

July 10, 2013, Wednesday

First day of classes.

July 15, 2013, Monday

Fourth class day, census date.

July 18, 2013, Thursday

Last day to change course to non-credit.

August 2, 2013, Friday

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

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

August 13, 2013, Tuesday

Last day of classes.

August 14, 2013, Wednesday

Study day, no classes or final examinations without written approval of the dean.

August 15, 2013, Thursday

Summer II final examinations.

Residence Halls close at 6 p.m.

August 16, 2013, Friday

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

Cafeteria open for breakfast and lunch only.

August 17, 2013, Saturday

Commencement exercises.

Summer III 2013 10-week Session

April 1, 2013, Monday (tentative)

ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III and Fall 2013.

June 3, 2013, Monday

First day of classes.

June 11, 2013, Tuesday

Seventh class day, census date.

July 4, 2013, Thursday

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

July 12, 2013, Friday

Last day to change course to non-credit.

July 31, 2013, Wednesday

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

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

August 13, 2013, Tuesday

Last day of classes.

August 14, 2013, Wednesday

Study day, no classes or final examinations without written approval of the dean.

August 15, 2013, Thursday

Summer III Final Examinations.

August 16, 2013, Friday

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

August 17, 2013, Saturday

Commencement exercises.



The University of Texas-Pan American

Overview

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

Mission

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

Vision

The vision of The University of Texas-Pan American is to be a premier institution of higher education. As a major, nationally recognized Hispanic-serving institution, the University will be a leader in addressing the needs of a culturally diverse society through discoveries and innovations of global significance.

Values

We value ethical conduct based on honesty, integrity, and mutual respect in all interactions and relationships. We value student access to higher education, recognizing their diversity and needs.

We value student success fostered through the commitment of faculty and staff. We value a diversity of perspectives, experiences, and traditions as essential components of a quality education.

We value curiosity, exploration, inquiry, innovation, creativity, and an entrepreneurial spirit. We value collaboration with internal and external constituent groups. We value active involvement in shared governance, consensus building, teamwork, and open communication. We value our relationship as a united community of scholars, students, and staff enriching each other's work and lives through our commitment to the advancement of UTPA.

Goals

Provide students a quality educational experience that enables them to complete their educational goals in a timely fashion. Become an outstanding research institution, emphasizing collaborative partnerships and entrepreneurship. Enhance UTPA's engagement with the community to meet challenges and maximize opportunities.

Collaborate with P-12 schools to enlarge the pool of applicants who are personally prepared and academically qualified for higher education. Infuse Inter-American and global perspectives throughout the University community. Optimize institutional effectiveness and efficiency consistent with high quality organizational standards.

University History

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

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

1971-1989	Pan American University saw the student population diversify during the 1970s reflecting a predominantly Mexican-American population. The Wall Street Journal article credited President Miguel Nevárez with creating a Hispanic middle class for the South Texas region through education.
1989- Present	The University of Texas-Pan American was established in 1989 after the successful and historic merger of Pan American University with The University of Texas System.

Today, UT Pan American continues to grow with a current enrollment of more than 18,700 students. The institution serves the cultural, social, economic, research, and most importantly educational needs of the rapidly growing, international, culturally diverse population of South Texas.

The Students

UTPA has a total of 18,744 students (Fall 2010) coming from 32 different states, while the majority comes from Texas. UTPA enrolls the highest number and highest percentage of Hispanics (88.5%) among Texas public universities. Of the total student population, 2,478 are graduate students participating in over 57 graduate-level programs. According to the Texas Higher Education Coordinating Board's "Closing the Gaps" target, the University will have a fall enrollment of 22,000 students by the year 2015. According to The Hispanic Outlook in Higher Education 2011, UTPA is among the top 100 best U.S. colleges for Hispanics including:

- 3rd in the nation in the number of bachelor's degrees, 3rd in the number of master's degrees awarded to Hispanics.
- 1st in English Literature, Foreign Languages, Multi-interdisciplinary Studies and Biological and Biomedical Sciences in bachelor's degrees awarded to Hispanic students.

Degrees and Programs

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

Graduate Degrees

Doctoral Degrees

- College of Arts and Humanities
Spanish (Ph.D.) in cooperation with
The University of Houston
- College of Business Administration
Business Administration (Ph.D.)
- College of Education
Educational Leadership (Ed.D.)
- College of Health Sciences and Human Services
Rehabilitation Counseling (Ph.D.)
Pharmacy (Pharm.D.) in cooperation with
The University of Texas at Austin

Master's Degrees

- College of Arts and Humanities
Art (MFA)
Communication (MA)
Creative Writing (MFA)
English (MA)
English as a Second Language (MA)
History (MA)
Music (MM)
Spanish (MA)
Theatre (MA)
- Master of Arts in Interdisciplinary Studies (MAIS)
Concentrations in
English
History
Spanish
- College of Business Administration
Business Administration (MBA)
Accountancy (MACC)
Accounting (MSA)

- College of Education
Bilingual Education (M.Ed.)
Early Childhood Education (M.Ed.)
Educational Administration (M.Ed.)
Educational Diagnostician (M.Ed.)
Educational Leadership (Ed.D.)
Elementary Education (M.Ed.)
Guidance and Counseling (M.Ed.)
Kinesiology (Physical Education) (MS)
Reading (M.Ed.)
Secondary Education (M.Ed.)
School Psychology (MA)
Special Education for the Culturally
and Linguistically Diverse Learner (M.Ed.)

General Information

College of Engineering and Computer Science

Computer Science (MS)
Engineering (MSE)
Concentrations in
Electrical
Manufacturing
Mechanical
Engineering Management
Information Technology (MSIT)

College of Health Sciences and Human Services

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

College of Science and Mathematics

Biology (MS)
Chemistry (MS)
Mathematical Science (MS)
Master of Science in Interdisciplinary Studies (MSIS)
Concentrations in
Chemical Education
Physics

College of Social and Behavioral Sciences

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

Certification Programs

College of Education

Graduate Teacher Education - Secondary Education
Graduate Teacher Education - Kinesiology
Reading Specialist
Licensed Professional Counselor
Principal's Credential
Superintendent's Credential

Graduate Certificates

College of Arts and Humanities
Communication Training and Consulting
Media Relations and Strategic Communication
Mexican American Studies

College of Business Administration

Advanced Business Administration
Healthcare Administration and Leadership

College of Social and Behavioral Sciences

Global Security Studies and Leadership Certificate

Bachelor's Degrees

- College of Arts and Humanities
Art (BA, BFA)
Communication
Communication Studies (BA)
Journalism (BA)
Theatre (BA)
Dance (BA)
English (BA)
French (BA)
History (BA)
Inter-American Studies
(Latin-American Studies) (BA)
Social Studies Composite 8-12 (BA)
Mexican American Heritage (BA)
Music (BA, BM))
Philosophy (BA)
Spanish (BA)
- College of Business Administration
Accounting (BBA)
Computer Information Systems (BBA)
Economics (BA, BBA)
Finance (BBA)
Management (BBA)
Marketing (BBA)
- College of Education
Health (BS)
Kinesiology (BS)
Interdisciplinary Studies (BIS)
- College of Health Sciences and Human Services
Clinical Laboratory Sciences (BS)
Communication Sciences and Disorders (BS)
Dietetics (BS)
Nursing (BSN)
Physician Assistant Studies (BSPAS)
Rehabilitative Services (BS)
Rehabilitative Services - Addiction Studies (BS)
Rehabilitative Services - Deaf Studies (BS)
Social Work (BSW)
- College of Science and Engineering
Biology (BS)
Chemistry (BS)
Computer Science (BS), (BSCS)
Computer Engineering (BSCMPE)
Electrical Engineering (BSEE)
Environmental Science (BS)
Interdisciplinary Studies (BIS)
Concentration in

Life Science 4-8

Mathematics 4-8

Manufacturing Engineering (BSMFGE)

Mathematics (BS)

Mechanical Engineering (BSME)

Physics (BS)

- College of Social and Behavioral Sciences
Anthropology (BA)
Criminal Justice (BSCJ)
Political Science (BA)
Psychology (BA, BS)
Sociology (BA)
- Interdisciplinary Bachelor's Degrees
Applied Arts and Sciences - Liberal Arts (BAAS)*
Applied Arts and Sciences - Business Technology (BAAS)*
General Studies (BGS)*

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

Additional degree programs were being developed and approved at the time of publication.

Contact the Graduate School

or the Office of the Registrar

for information about these new opportunities.

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The Graduate School

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

The Graduate School provides centralized coordination of and administrative leadership for all graduate programs. It oversees all processes related to graduate students including marketing to prospective students, extending offers of admission to the university, enrollment of students, maintaining permanent student records and certification of degrees.

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

Admission

Philosophy

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

General Information

Admission requirements for graduate school are designed for students who have a high probability of success in graduate-level work at The University of Texas-Pan American. The University establishes minimum standards for admission to any graduate program. Application to all graduate programs is made online through the Office of Graduate Studies at www.utpa.edu/gradschool.

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

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

Any student who would like to enroll in a graduate-level course (courses numbered 5000-9000) must apply and be accepted for graduate study at UT Pan American. Students accepted for graduate study are also eligible to enroll in undergraduate courses.

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

Important Contact Information

Office of Graduate Studies
Administration Building, Room 116
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3661 or (956) 665-2207

Office of Payments and Collections
Student Services Building, Room 1.145
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2715

Office of the Registrar
Student Services Building, Room 1.150
The University of Texas-Pan American
1201 W. University Drive
Edinburg, Texas 78539-2999

Telephone: (956) 665-2481

Student Financial Services
Student Services Building, Room 1.192
The University of Texas-Pan American
1201 W. University Drive
Edinburg, Texas 78539-2999
Phone: (956) 665-2501

UTPA Testing Center
1407 East Freddy Gonzalez Drive
Suite 1.101
Edinburg, TX 78539-2999
Telephone (956) 665-7585

ETS Testing Information
www.ets.org

Application Process

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

The application to graduate school consists of:

1. Application: Submitted online by the appropriate deadline.
2. Application Fee: Payment of the application fee of \$50 is submitted with the application. All application fees are nonrefundable. For applicants to the Ph.D. in business, the application fee is \$85.
3. Official Transcripts: Official college transcripts are required from each institution attended. The student is advised to request that the transcript(s) be sent directly to the Graduate Office at the address listed. If the applicant attended UT Pan American at any time, the Graduate Studies Office will handle those official transcripts; however, the applicant is responsible for requesting official transcripts to be sent directly from all other institution(s). Transcripts must be sealed and sent directly from the institution to be considered official. Transcripts will be considered unofficial if they are hand delivered by the applicant or third party regardless if sealed by the institution.
4. Test Scores: GRE and GMAT test scores, if applicable, should be requested by the student to be sent directly to the Graduate School.

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

Official admission offers will be made only by the UT Pan American Graduate School and are valid only for the

semester requested on the application. Students who are accepted but do not attend the semester requested on the application must submit an application for re-admission to enroll for a later semester. Some graduate programs may have additional requirements for delayed enrollment.

Failure to submit a complete/correct application and official transcripts from all institutions attended will result in one of the following: rejection of application, withdrawal of admission offer, or disciplinary action including expulsion if the student is enrolled. All submitted documents become the property of UT Pan American and will not be returned. Application documents will remain on file for one year, if the applicant does not attend the University. Documents will be retained for seven years for students enrolling in a master's level program and 10 years for students enrolling in a doctoral program.

International students should refer to page 19 for additional requirements.

Application Deadlines

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

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

Registration deadlines are listed in the University Calendar section of this catalog or can be found online on the ASSIST website.

Admission Categories

Graduate Degree-Seeking Students

A graduate degree-seeking student admitted into a specific degree program will be evaluated on a series of criteria created by both the University and the graduate program to which the applicant is applying and will be classified under one of the four admission classifications (see Admission Classifications pg. 21).

Transfer Students

(Not applicable to doctoral students)

Students currently enrolled in graduate programs at other universities may apply to UT Pan American as transfer students to earn credit to transfer to the primary graduate school. A graduate transfer student may enroll for a maximum of 12 graduate hours at UT Pan American. To apply, the following must be submitted to the Graduate School:

1. A completed UT Pan American application and payment of the application fee.
2. A letter of approval for the enrollment from the dean of the graduate school or college to which the work

will be transferred. This letter must be sent directly to the UT Pan American Graduate School.

3. Official transcript(s) of all graduate work.
4. An updated letter of approval is required each semester if the transfer period needed to complete the 12 hours exceeds one semester.

Graduate Non-degree Seeking Students

Students wanting to take graduate coursework for professional improvement must submit a graduate application online, pay the required fees, and submit an official transcript showing the awarding of a bachelor's or higher degree. This must be sent to the UT Pan American Office of Graduate Studies directly from the awarding institution. Non-degree seeking students applying for certification related to education are required to have transcripts sent from all institutions attended. Registration as a non-degree seeking student in a master's course requires the permission of the graduate program director or the department chair. Registration in doctoral courses requires acceptance to a doctoral program and/or approval of the vice provost for graduate studies and may require additional documentation.

International Students

An applicant is considered an international student if he or she is not a citizen of the United States, a permanent resident alien or a political asylee to the U.S. Applicants who have permanent resident alien status do not apply as international students. All required documents must be on file in the Graduate School by the deadlines posted in the graduate school website. In addition to meeting the requirements listed in the Admissions section on page 18, international students must also submit the following:

1. English Proficiency Exam: Students whose native language is not English will be expected to provide test scores for either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).
 - a. Test of English as a Foreign Language (TOEFL)
 - The institution code to forward your scores to UT Pan American is 6570.
 - Scores must be sent directly from Educational Testing Services (ETS) to UTPA. Student copies will not be accepted.
 - Scores are valid for two years. If the test date was more than two years ago, the applicant must retake the examination and request that an official report from ETS is sent to UTPA.
 - UTPA does not accept institutional (or residual) TOEFL exams taken at another institution.
 - The minimum acceptable total score is 500 for paper/pencil tests or 173 for computer-based tests or 61 for internet-based tests (Note: some programs require a

General Information

higher score, please check the program requirements for more information).

- The test bulletin of information and registration forms are usually available at American embassies and consulates, offices of the United States Information Agency, or online at www.ets.org.
- b. International English Language Testing System (IELTS)
- Scores must be sent directly from the testing agency to the Graduate School. Students scoring below a 5.5 on the IELTS will not be eligible for admission. For information visit: IELTS.
- c. Alternative English Proficiency Exam
- Prospective students may make a written request to take an alternative English proficiency exam in place of the TOEFL or IELTS. Prior to consideration of the application, the UT Pan American Graduate School must approve the request.
- d. Exceptions to the TOEFL or IELTS
- Lifetime residents of Australia, Canada (other than Quebec), New Zealand, United Kingdom, or the United States (other than Puerto Rico).
- Students who have recently and successfully completed at least 30 hours of university level academic studies in one of the countries listed.

2. English Translation of Educational Records: In addition to the official transcripts required for admission, a notarized English translation must be included to allow for accurate interpretations.

3. Evaluation of Educational Records: In addition to providing a translated transcript, students must have their official transcript(s) evaluated by Foreign Credentials Service of American (FCSA).

- Students may send copies of their transcript(s) directly to FCSA. The student must bring the original copy of the transcript to the Office of Graduate Studies and a copy will be made and placed in the student's file. This can be done at any point after the application is submitted or during the student's first semester, but must be done before the student registers for the second semester. Students not complying with this requirement will not be able to register for future semesters.
- Failure to submit a complete/correct application and official transcripts from all institutions attended will result in one of the following: rejection of application, withdrawal of admission offer, or disciplinary action including expulsion if the student is enrolled.
- All submitted documents become the property of UTPA and will not be returned. Admission documents will remain on file for one year if the applicant does not attend the University. Documents will be retained for seven years for students enrolled in a master's level program and for ten years for students enrolled in a doctoral program.

Additional information is available at www.fcsa.biz or (512) 459-8428.

4. Financial Documentation: In accordance with immigration regulations, all international students are required to submit to the Office of Graduate Studies documentation showing sufficient funds (minimum of \$22,000 subject to change) to cover all expenses (living and academic) for the first year of study.

- Documentation must be in the form of letters from the bank or of statements showing specific dollar amounts available. These documents are not valid unless dated within three months of the date of acceptance.
- If funds that are from a source other than the applicant or their immediate family, the sponsor must submit a letter of support, state the amount of funding pledged and attach copies of recent bank statements.
- These documents are not valid unless dated within three months of the date of acceptance.
- If you have been offered a scholarship you will need to provide documentation and dollar amount of the scholarship to our office.
- If you have been offered an assistantship by the university you will need to provide documentation and dollar amount of the assistantship to our office.
- Eligible Mexican nationals may also apply for the Mexican Non-Resident Tuition Waiver and provide all financial documentation that it requires (see the OIAS for application or download form at http://portal.utpa.edu/utpa_main/dess_home/oias_home/PASE).

5. Current Immigration Documents: All international applicants must submit a current copy of your valid passport so that we may ensure that the spelling of your name is consistent on all immigration and university documents.

- If approved for admission the Office of International Admissions and Services will issue an I-20, which you will need to take to the nearest U.S. Consulate and apply for a student visa (detailed instructions will be included with the I-20).
- For international applicants who plan to attend on a visa status other than F-1 or F-3 student status, proof of that status is required. Include copies of all immigration documents.
- If you have applied for U.S. Residency but have not yet received it you must attach copies of immigration documents.
- If you are in the U.S. but currently having no legal status (undocumented) please note so on the application. Please contact Office of International Admissions and Services as you may qualify for in-state tuition based on Texas Senate Bill 1528. For information and documents needed to obtain a student visa please contact the OIAS. Documents will be issued to you if you have been accepted to UTPA and all OIAS requirements have been met.

6. Proof of Mandatory Medical Insurance: Proof of medical

insurance must be submitted to the Office of International Admissions and Services (OIAS), Learning Assistance Center Room 156. The student will be billed if there is no proof of medical insurance. Please see insurance requirements on OIAS website www.utpa.edu/OIAS.

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

Upon completion of the application process, admitted applicants will be issued an I-20 by the international student adviser, who is the University's designated official to report the status of international students to the Immigration and Naturalization Service. Students then present the I-20 to the American Consulate or embassy in their home country to obtain a visa. International students are required to report any change in status immediately to the international student adviser, located at the Learning Assistance Center, Room 156. Visit www.utpa.edu/oias or call (956) 665-2922 for information.

Duration: A non-immigrant student may be admitted for "duration of status." This means that the student is authorized to stay in the United States for the entire length of time during which the student is enrolled full-time in an educational program and any period of authorized practical training plus 60 days. While in the United States, the student must maintain a valid I-20, visa and a valid foreign passport unless exempt from passport/visa requirements.

School on Visa: For initial admission, the student must attend the school specified on the visa. If the student has a Form I-20 A-B from more than one school, it is important to have the name of the intended school specified on the visa by presenting a Form I-20 A-B from that school to the visa-issuing consular officer. Failure to attend the specified school will result in the loss of student status and subject the individual to deportation.

Re-entry: A non-immigrant student may be re-admitted to the University after a temporary absence of five months or less from the United States, if the student is admissible. The student may be re-admitted by presenting a valid foreign passport, a valid visa and either a new Form I-20 A-B (the I-20 ID copy) properly endorsed for re-entry if the information on the I-20 form is current.

Transfer: A non-immigrant student is permitted to transfer to a different school provided that the transfer procedure is followed. To transfer to a different school, the student should first notify the school they are currently enrolled of the intent to transfer, and then obtain a SEVIS release form and an acceptance letter from the new school. Transfer will be in effect only if the student submits the SEVIS release form and the acceptance letter from the new school to the designated school official within 15 days of beginning attendance at the new school. The designated school official will then report the transfer to the Immigration and Naturalization Service.

Extension of Stay: If the student cannot complete the educational program after having been in student status for the anticipated length of the program, the student must apply for an extension of stay. An application for extension of stay is obtained at The Office of International Admissions

and Services, Learning Assistance Center, Room 156. The application must be submitted to the international student adviser at least 30 days but no more than 60 days before the expiration of the student's stay.

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

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

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

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

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

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

Graduate Admission GPA Calculation

The Graduate Admission GPA is calculated as follows:

1. All academic work undertaken and grades or symbols assigned at each institution shall be reflected on the student's official transcript(s). No grade may be expunged, or excluded, from a student's record. An applicant who has earned a bachelor's degree under the "Academic Fresh Start" statute, Texas Education Code, Section 51.931, will be evaluated only on a grade point average of the coursework completed for that bachelor's degree and the other criteria stated herein. For more information on the Academic Fresh Start program, see the Undergraduate Catalog.
2. All grades for academic coursework assigned, including all grades in course which have been repeated, will be used in calculating the graduate admission grade point average, which can include any previous work in a graduate or professional school other than remedial or non-credit courses.
3. The GPA computation is based on a four-point scale

General Information

(e.g.: A=4 points per semester hour, B=3 points per semester hour, C=2 points per semester hour, D=1 point per semester hour, and F=0 points per semester hour.

4. A grade or symbol indicating failure (i.e., F, WF, DF) will count as hours undertaken, but no grade points will be earned.
5. Excluded from the grade point average will be any credit by examination (CR), Quit (Q), Withdrew (W), Withdrew Passing (WP), Incomplete (I), and a "Pass" grade within a pass/fail system.
6. The GPA is computed by multiplying each grade point (see 3. under this section) by the semester or quarter credit hours earned per course and totaling the products. The semester or quarter hours of courses undertaken will then be totaled. The total of the products will be divided by the total semester or quarter hours. The result (calculated to the 100th place) is the official cumulative grade point average for admission to graduate students.

Clear Admission

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

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

Conditional Admission

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

Based on Academic Record

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

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

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

provide an explanation of any extenuating circumstances to be considered. The vice provost's decision shall be final. At the end of the semester in which a conditional student's total earned graduate hours are six or more and the student's graduate GPA is 3.0 or better with no grade less than B, the student's admission classification will be changed to "clear."

Based on Unofficial Documentation

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

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

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

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

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

Based on Graduate Program Requirements

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

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

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

No Admission

An applicant not meeting the minimum graduate admission requirements for the University or the admission criteria for the graduate degree program will not be admitted. However, admission to a graduate program is

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

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

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

Procedure after Admission to the University for Graduate Study

Successful applicants will receive a letter of acceptance from the Graduate School.

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

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

Graduate students must maintain an overall 3.0 GPA or higher on all graduate coursework in order to avoid probation or suspension.

Transfer of Graduate Credits to UT Pan American

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

A course may be transferred only if:

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

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

Reservation of Work by Undergraduates for Graduate Credit

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

1. The undergraduate student must lack no more than 12 hours to complete all requirements for his or her first bachelor's degree.
2. These 12 hours (or less) must be completed in the same semester, or in two consecutive summer sessions, in which the student is taking the graduate courses.
3. Total enrollment including undergraduate and graduate courses, must not exceed 15 hours in a regular semester, or 12 hours in two consecutive summer sessions.
4. The student has a minimum graduate admission GPA calculation of 2.5 (on a 4.0 scale) on all work completed to date. (For information on the Graduate Admission GPA Calculation, see pg 20.)
5. The application for such graduate work is submitted to the Graduate School. Undergraduates cannot count their work in graduate courses toward the bachelor's degree. Such work will be reserved for credit toward a graduate degree.

Graduate 99-Hour Rule

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

Distance Learning Courses

UTPA offers two types of distance learning education courses in addition to the traditional classroom setting. The letter “I” after the section number identifies interactive video courses, and the letter “L” identifies local web delivery courses after the section number (i.e. ENG 1301.90I or ENG 1301.90L).

For further information, contact the course instructor, visit the Center for Online Learning, Teaching and Technology colt.utpa.edu or call (956) 665-2979.

UT Online Consortium

Online courses are offered from The University of Texas-Pan American via UT Online Consortium. UT Online Consortium is the gateway to online degrees and courses from The University of Texas System institutions. On the website one will find links to various student services and support offices and program information for the UT institutions participating in the consortium. Designated contacts at each campus are available to assist, as is the student services support staff of UT Online Consortium. Call toll-free 1-888-TEXAS-16 (1-888-839-2716) with questions.

NOTE: To see a full listing of semester courses offerings and host universities for the UT Online Consortium, access the website at <http://www.utcoursesonline.org>.

Criminal Background Checks

Certain programs require students to submit to and satisfactorily complete a background check review as a condition of admission and/or participation in education experiences. Students who refuse to submit to a background check or who do not pass the background check may be dismissed from the program. See UTPA Handbook of Operating Procedures Section 6.7.6. for more information.

Additionally, many Texas school districts require applicants for student teaching or field experiences to undergo a criminal history background check prior to placement in the school district. School districts may deny placement of students with a criminal background. If a school district denies a placement for this reason, the UTPA Office of Student Teaching and Field Experiences may attempt to assist the student in obtaining a placement in an alternate district. Students should be aware, however, that if they are unable to obtain a placement they will not meet UTPA's requirements for a teaching degree or teacher certification. Additionally, The Texas State Board for Educator Certification (SBEC) regulates the certification of educators to teach Texas public school children. Before an individual can be certified, SBEC must conduct a criminal history background check to ensure an applicant's suitability to interact with children. Working with the Texas Department of Public Safety (DPS), the agency conducts statewide criminal history background checks on all applicants for educator certification. Students pursuing educator preparation should be aware that some criminal histories may lead to the denial of certification as a teacher. Students may obtain additional information from SBEC.

Fiscal Policies

The cost of attending The University of Texas-Pan American is relatively low – approximately \$2,397 per semester in 2011-2012 for nine hours of required tuition and fees for a graduate student who is a resident of Texas. A large student financial aid program offering part-time employment, scholarships, grants and loans helps most students at UT Pan American meet the costs of attending college. For more information on financial aid, see the Financial Assistance section on page 32 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 27.) Other charges are due within 10 days after a bill is rendered by the University, or according to the special payment instructions that may be printed on the bill. Failure to pay the amount owed in the allotted time can result in withdrawal from classes; the withholding of registration privileges, official transcripts, grades and degrees; University disciplinary action, and other penalties and actions authorized by law.

A student is only registered in the University and entitled to University privileges after he or she has paid all required fees. A hold against re-entry is imposed on a student who fails to pay a debt owed to the University.

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

Residency Classification for Tuition Purposes

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

- A resident of the state of Texas for tuition purposes is an individual or dependent who has physically resided

(or whose parent has physically resided) in the state of Texas for a period of 12 continuous months prior to enrollment, or is an individual who graduated from a Texas high school and has maintained a residence in Texas continuously for at least three years prior to the date of that graduation and one year prior to enrollment. Individuals seeking to establish resident status under the second definition, and who are not citizens or permanent residents, must provide an affidavit stating that the individual will file an application to become a permanent resident at the earliest opportunity of eligibility. Students are required to complete the Core Residency Questionnaire as part of the application process. Residency for tuition purposes will be based on this questionnaire and other information/documents submitted by the student.

- A nonresident for tuition purposes is a U.S. citizen or permanent resident alien who has not lived and worked in the state of Texas for a period of 12 months prior to enrollment.
- A foreign student is a person who is a citizen of another country.

Residency for tuition purposes for a dependent is established on the residency of the parents or legal guardian.

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

Individuals classified as a nonresident or foreign student may qualify for resident tuition rates and other charges while continuing to be classified as a nonresident 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

Additional information on residency, reclassification, tuition exceptions and waivers is available at:

The University of Texas Pan American
Office of the Registrar
Student Services Building, First Floor
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone (956) 665-2481.

Students are required to sign an oath of residency as part of the application process. Residency for tuition purposes will be based on this oath and other information/documents submitted by the student.

Tuition and Mandatory Fees

Tuition, fees and charges are assessed to students based on semester credit hours, at a fixed rate per semester, by course or for specific services. Tuition and fees are subject to change by legislative or regental action and become effective on the date enacted. 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 page 31 are the required tuition and fees charged each semester:

- Tuition charges in 2011-2012 are \$100 per semester credit hour for resident graduate students and \$413 per semester credit hour for all nonresident graduate students, and in 2012-2013 are \$100 and \$413, respectively.
- Tuition Designated charges in 2011-2012 are \$120.09 per semester credit hour, with a maximum of \$1681.26 per semester, for all graduate students.
- Student Service Fee: Supports student activities such as intramural and intercollegiate athletics, the campus newspaper, student accident insurance, University Program Board, drama, dance group, Student Government Association, University Center and other student services as determined by the Board of Regents. At the time of the printing of this catalog, the fee is charged at \$14 per semester credit hour, up to a maximum of \$250 per regular semester or \$125 per summer session.
- Student Union Fee: \$30 per student per regular semester and \$15 per student per summer session will be assessed to finance the construction and provide operational and maintenance support of the Student Union Building.
- Information Technology: \$10.25 per semester credit hour is charged to fund costs incurred in providing access to and supervision of computer laboratories.
- International Education Fee: \$1 per semester is charged to assist students participating in international student exchanges or study programs.
- Recreation Fee: \$75/\$35 starting fiscal year 2008.
- Registration Fee of \$10 per semester is charged to defray the cost of providing ASSIST services for registration.
- Library Support Fee: \$3.25 per semester credit hour is charged to enhance student access to library information via technology.
- Medical Service Fee: \$27.35 per regular semester or \$12.55 per summer session is charged to fund Student Health Services.
- Energy Fee: \$2.85 per semester credit hour is charged to defray the rising cost of utilities.

NOTE: The Fee Tables on page 31 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) 665-2715 for current information.

Course Specific Fees

- Art Course Fee: \$40 per course for studio art and art education and \$20 per course for art history. This fee is assessed to defray the cost of technology, materials, student assistants and visiting artists/critics.
- Biology Course Fee: \$15-\$36 will be assessed on biology courses to defray the costs of supplies, chemicals and costs associated with replacement of equipment.
- Chemistry Course Fee: \$24 will be assessed to defray cost of field trips, supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific chemistry courses.
- Clinical Lab Science Course Fee: \$20-\$50 per course. This fee is assessed to defray the costs of consumable supplies, media, diagnostic reagents, chemicals and the clinical practicum cost.
- College of Education Field Experience Fee: \$25 per course. This fee is assessed to defray the cost of the field experience program.
- Communication Course Fee: \$40 for television, photography, and media publishing courses; \$20 for writing courses and \$5 for all other courses. This fee is assessed to defray the cost of supplies, materials and cost associated with the replacement of equipment and software.
- Computer Science Instruction Fee: \$5 per semester credit hour for lower undergraduate level courses, \$7 per semester credit hour for upper undergraduate level courses and \$15 per semester credit hour for graduate level courses. This fee will be assessed on computer science courses to defray the cost of computer hardware, maintenance, lab monitors and software upgrades.
- Developmental Course Repeat Fee: \$100 per semester credit hour. This fee is assessed to defray the cost associated with students enrolled in an aggregate total of more than 18 semester hours of developmental courses.
- Dietetics Course Fee: \$15 will be assessed on specific dietetic courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- Distance Education Fee: \$25 per course will be assessed to students enrolled in distance learning courses offered through interactive video. Students enrolled in these courses may request fee waivers if special circumstances preclude them from using UTPA facilities, activities and/or student services on which a fee is based.
- Engineering Course Fee: \$5 per semester credit hour for lower undergraduate courses, \$13 per semester credit hour for upper undergraduate courses and \$18 per semester credit hour for graduate level courses. This fee is assessed to defray costs of lab equipment beyond that provided by the COS&E Technology Fee, and for supplies, maintenance of equipment, cost of software and other peripherals utilized.
- Excess Credit Hour Fee: \$90 per semester credit hour is

- assessed to defray the cost of providing instruction to students who have exceeded the required degree plan hours as described in the Texas Education Code §61.0595.
- Field Trip Fee: Varies based on actual transportation and related costs. This fee is assessed to defray the transportation and related costs associated with field trips.
 - Individual Instruction Fees: For courses in art, communication and music that provide individual coaching or instruction, a fee of \$35 for a one- or two-hour course or \$60 for a four-hour course may be charged. Specific music courses are assessed \$2.
 - Instrument Users Fee: \$10 will be assessed for Clinical Laboratory Science courses, \$25 to certain College of Education courses, and \$8-\$58 for specific music courses to support maintenance and equipment replacement costs.
 - Kinesiology Activity Course Fees: \$6 will be assessed for all two-hour kinesiology activity courses. In the case of bowling, golf and scuba diving, there is an additional fee for the use of non-University facilities and equipment; the additional fees are subject to change at the discretion of the facility provider.
 - Kinesiology and Dance Supply Replacement Fee: Actual cost. This fee is assessed to defray the cost of replacing lock, towel and baseball gloves.
 - Laboratory Fees: \$2-30 may be assessed for each laboratory course depending upon cost of material used.
 - Nursing Course Fee: \$27 per course is assessed to defray the costs of supplies, materials and other costs associated with the replacement of equipment and software.
 - Nursing Testing Fee: The actual cost of testing will be assessed for standardized testing required by the Board of Nurse Examiners. This fee is non-refundable.
 - Occupational Therapy Course Fee: \$30-\$100 will be assessed to defray costs of supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific courses.
 - Optical Mixed-Media Fee: \$10 to defray the cost associated with producing CDs, DVDs, or other optical media used to supplement course instruction.
 - Rehabilitation Course Fee: \$10 per course is assessed to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
 - Technology Fee: Students enrolled in the College of Business Administration or College of Science and Engineering will be assessed a fee to defray costs associated with technical support and software licensing. Fee rates will be:
 - College of Business Administration undergraduates, \$10 per three semester credit hours with a \$30 maximum; MBA graduates, \$15 per three semester credit hours with a \$45 maximum; Ph.D. graduates, \$25 per three semester credit hours with a \$75 maximum.
 - College of Science and Engineering biology, chemistry, engineering and physics and geology undergraduates, \$3 per semester

hour, and graduates, \$15 per semester credit hour; mathematics undergraduates, \$1 per semester credit hour, and graduates, \$5 per semester credit hour.

Payment by Installment

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

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

Option A: Full payment on specified due date.

Option B: One quarter payment on specified due date.

One quarter payment on the first business day of the month after the fifth class week.

One quarter payment on the first business day of the month after the tenth class week.

The final quarter payment on the first business day of the month before the last class day

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

Students electing to pay in accordance with Option B must personally sign a promissory note. A nonrefundable tuition installment incidental charge of \$30 will be collected to defray the cost to the University of providing this delayed-payment service.

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

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

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

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

Other Fees and Deposits

- Auditing Fees: \$20 nonrefundable fee will be charged if the instructor permits anyone to audit the course.
- Cafeteria Meal Tickets: Cafeteria meals for students

residing on campus are included in the Residence Hall contract. Other students may purchase a semester or summer session meal ticket. For more information, see Student Housing on page 69.

- Catalog: The first University catalog is provided free to students as long as supplies are available. The catalog is also available online.
- Cooperative Pharmacy Program Application Fee: \$60 is assessed to defray the cost associated with the Pharmacy Program application process and travel of faculty between UT Austin and UT Pan American for admission committee meetings.
- Diploma Replacement Fee: \$20 will be charged to students who request the replacement of a diploma for replacement and duplication costs.
- Emergency Loan Processing Fee: \$20 nonrefundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See page 36 for more on Emergency Loans.)
- Engineering Magnetic Key Fee: \$15 for magnetic cards (\$10 refundable) and \$25 for electronic cards (\$18 refundable).
- Foreign Transcript Evaluation Fee: \$80 to defray the cost associated with evaluation of foreign transcripts.
- General Property Deposit: \$20 one-time deposit to ensure against losses, damages or breakage in laboratories and libraries.
- Graduate Admission Application Fee: \$50 nonrefundable fee to defray the cost associated with recruitment and retention at the graduate level and the processing of application. The application fee for the Ph.D. in Business Administration is \$85.
- Graduation Fee: \$32 nonrefundable fee is assessed for undergraduate and graduate degrees. This fee is payable at the time the candidate presents the application for graduation to the Office of the Registrar. This fee is used to pay for processing the application for graduation, music, graduation speaker, postage, diplomas and other expenses associated with graduation. All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the University Bookstore. No students will be permitted to participate without the proper regalia. Students wishing to transfer their application for graduation to another semester will be required to pay an additional \$10 fee for each time they transfer.
- Health Insurance Fee: This is mandatory insurance for international students holding nonimmigrant visas and living in the United States. The fee is variable to match the premium for approved UT System Student Insurance Plan, and may be waived if proof of adequate insurance is provided.
- ID Card Replacement Fee: \$12 nonrefundable fee for a replacement ID card. Entering students are provided a free University photo identification card during their first semester of enrollment. Students may pay the fee at the BronCard Office, ASB, Room 1.101, when they request a replacement ID Card.
- International Student Service Fee: \$40 per semester is

General Information

assessed to defray the cost of providing services to F-1, F-3 and J-1 students.

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

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

- Library Fees: The fees are, for late book, \$0.25 per workday per book; lost book, Replacement cost plus \$15 processing fee; damage fee, \$5 if repairable in-house, \$12 if rebinding needed by commercial binder; late reserve material, \$0.50 per hour; late special collections book, \$1 per day; late vertical file/Annual Report item, \$1 per day; graduate carrel locker, \$10 per year; photocopy fee, \$0.20 per page; Interlibrary loan, actual cost; late equipment fee: up to \$0.50 per hour and not to exceed \$20 for equipment with value of up to \$100, \$1 per hour and not to exceed \$75 for equipment with value of \$101-\$300, \$2 per hour and not to exceed \$200 for equipment with value of \$301-\$600, \$3 per hour and not to exceed \$400 for equipment with value of \$601-\$1,200, \$4 per hour and not to exceed \$600 for equipment with value of \$1,201-\$2,000, and \$5 per hour and not to exceed \$800 for equipment with value of \$2,001-\$3,000; locker rental fee, \$.25; lost book returned without CD-ROM, cost of item plus \$15 processing fee; lost audio visual and computer materials, replacement cost plus \$15 processing fee. All library fees are paid at the Circulation Desk of the University Library.
- Orientation Fee: \$60 nonrefundable deposit fee that will be credited against the new student fee if the student enrolls. This fee is assessed to defray the cost of providing students materials during orientation.
- Parking Permit: See Vehicle Registration and Operation Permit below.
- Professional MBA Program Fees: Fee is assessed to cover the program-related costs, including textbooks, supplies and guest lecturers. The amount varies based on actual costs.
- Residence Hall Installment Charge: See Student Housing on page 69.
- Returned Check Charge: \$15 nonrefundable service charge will be assessed to a student for each bad check. The University may refuse to accept a check from a student who has previously given a bad check (insufficient funds, account closed, signature irregular, payment stopped, etc.).
- Science Magnetic Key Fee: \$15 for magnetic cards (\$10 refundable) and \$25 for electronic cards (\$18 refundable).
- Short-Term Loan Fees: \$5 processing fee and a \$5 late payment fee. (For more information on short-term loans, see page 36.)
- Study Abroad and International Exchange Application and Program Fees: \$125 application fee will be assessed to defray the cost of administering the programs in addition to the actual cost of travel, lodging, meals, instructional honorarium and

enrollment. Program fees assessed will be the actual cost of Study Abroad or International Exchange Program. These fees are nonrefundable.

- Student Liability Insurance: All students enrolled in specific programs in the College of Health Sciences and Human Services, College of Education or College of Social and Behavioral Sciences must carry liability insurance. This is necessary in order for students to participate in clinical practicum activities associated with coursework. Fee assessed will reflect actual cost of insurance.
- Student Union Game Room Late Payment Fee: This fee is charged to defray the cost of processing late payments of recreation room charges. The fee is \$5 the first day plus \$1 per day after the first day to a maximum of \$10.
- Teacher Alternative Certification Program Application Fee: \$50 will be charged for processing applications for the Alternative Certification Program in the College of Education.
- Teacher Certification Deficiency Plan Preparation Fee: \$25 for enrolled students or \$40 for non-enrolled students will be charged to prepare a Teacher Certification Deficiency Plan in the College of Education.
- Teacher Preparation Program Fee: A \$40 one-time fee will be charged to defray costs related to services provided to the College of Education students seeking certification in the Teacher Preparation Program upon completion of 90 hours.
- Texas Success Initiative (TSI) Activity Fee: \$120 will be charged to students participating in the Learning Assistance Center's Texas Success Initiative (TSI). This fee supports non-course based developmental education activities.
- Texas Success Initiative (TSI) Affected Student Advisement Fee: \$45 per semester will be charged to students not cleared from TSI to defray the cost of advising.
- TELESYS Account Fee: Students are charged \$36 per year or \$17 per fall or spring semester and \$14 for both summer terms for 260 hours annually (pro-rated if paid by semester) of Internet access through a SLIP/PPP modem pool. The charges for 520 hours are \$72 per year or \$34 per fall or spring semester and \$28 for both summer terms. The charge for 1,040 hours is \$108 per year or \$42 per fall or spring semester and \$36 for both summer terms. Internet access for more than 1,040 hours annually is available at \$2 per hour. The fee is assessed only for those students who make use of the service.
- Thesis Binding Fee: Actual cost.
- Tuition Installment Incidental Charge.
- University Testing Services Fee: Fees may be charged for tests to defray the cost of administering and scoring academic tests. Accuplacer Test Fee, \$45; ACT Residual Test, \$60; CLEP Service Fee, \$20; Correspondence Exam, \$30; Computer Assisted Placement, \$10; Institutional TOEFL, \$50; and THEA-Quick Test, \$15. Please inquire at the University

Testing Center, 1407 East Freddy Gonzalez Drive, Edinburg, TX 78539, Suite 1.101. Telephone (956) 665--7584 or 665-7585 or e-mail testing@utpa.edu.

- Vehicle Registration and Operation Permit (Parking Permit): All students, whether full- or part-time, who operate a motor vehicle in the campus area must register the vehicle with the University Police Department. A hangtag permit or decal to be placed on the vehicle indicating the permit number and Class C parking privileges will be provided. The charge for the academic year beginning September 1 and ending August 31 is \$52 if paid during the fall semester, \$30 if paid during the spring semester, \$23 during the first summer session and \$12 during the second summer session. There are no refunds after the 12th class day (fourth class day in the summer). The University of Texas-Pan American enforces all Texas Vehicle inspection codes (Texas Education Code, Sec. 51.207). All vehicles that park on the campus premises must have current inspection stickers and a current student-parking permit properly displayed. Parking and Traffic rules and regulations are available at the University Police Department or at <http://www.utpa.edu/police>.

NOTE: Unpaid fees that become overdue may result in a “hold” being placed on students’ records. The fees listed above must be paid at the Office of Payments and Collections, Student Services Building, Room 115, except for the library fees and ID card replacement fee as noted above. Students who are unsure where to pay fees or what fees they owe may call the Office of Payments and Collections at (956) 665-2715 for more information.

A portion of the amount of your designated tuition will be set aside to provide financial assistance to other students; this amount will be listed on your online student bill.

Refund of Registration Fees

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

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

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

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

NOTE: The term “class days” refers to days the University schedules classes, not the individual student’s schedule.

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

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

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

Withdrawal for Military Service: A student who withdraws as a result of being called to active military service may choose (1) to receive a refund of tuition and fees for the semester; (2) if eligible, to be assigned an incomplete (I) in each course; or (3) at the instructor’s discretion receive a final grade in courses where he or she has completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material. Policies affecting students who are absent for military service but do not withdraw are provided in the “Military Absences” on p. 46.

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

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

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

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

Academic Common Market

At the graduate level, Texas participates in the Academic Common Market of the Southern Regional Education Board that enables students to take advantage of graduate programs not offered in the student's home state. Nonresident students

participating in programs that are offered through the Academic Common Market may be eligible to pay tuition at resident rates. Contact the Registrar's office for eligible programs and nonresident status.

For more information on residency classification for tuition purposes, see page 24.



Fall 2011-2012 Tuition and Fee Information Fee Table

Fee Table Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
	(Undergraduate)	(Graduate)	(Undergraduate)	(Graduate)
1	364.09	393.79	677.09	706.79
2	559.83	644.23	1,185.83	1,270.23
3	755.57	894.67	1,694.57	1,833.67
4	951.31	1,145.11	2,203.31	2,397.11
5	1,147.05	1,395.55	2,712.05	2,960.55
6	1,342.79	1,645.99	3,220.79	3,523.99
7	1,538.53	1,896.43	3,729.53	4,087.43
8	1,734.27	2,146.87	4,238.27	4,650.87
9	1,930.01	2,397.31	4,747.01	5,214.31
10	2,125.75	2,647.75	5,255.75	5,777.75
11	2,321.49	2,898.19	5,764.49	6,341.19
12	2,517.23	3,148.63	6,273.23	6,904.63
13	2,712.97	3,399.07	6,781.97	7,468.07
14	2,908.71	3,649.51	7,290.71	8,031.51
15	2,989.06	3,779.86	7,684.06	8,474.86
16	3,069.41	3,910.21	8,077.41	8,918.21
17	3,149.76	4,040.56	8,470.76	9,361.56
18	3,228.11	4,168.91	8,862.11	9,802.91
19	3,294.46	4,285.26	9,241.46	10,232.26
20	3,360.81	4,401.61	9,620.81	10,661.61
21	3,427.16	4,517.96	10,000.16	11,090.96
22	3,493.51	4,634.31	10,379.51	11,520.31
23	3,559.86	4,750.66	10,758.86	11,949.66
24	3,626.21	4,867.01	11,138.21	12,379.01
25	3,692.56	4,983.36	11,517.56	12,808.36
26	3,758.91	5,099.71	11,896.91	13,237.71

Summer 2012 Tuition and Fee Information Fee Table

Semester Credit Hours	Residents of Texas		NON-Residents of Texas	
	(Undergraduate)	(Graduate)	(Undergraduate)	(Graduate)
1	282.91	325.11	595.91	638.11
2	478.65	575.55	1,104.65	1,201.55
3	674.39	825.99	1,613.39	1,764.99
4	870.13	1,076.43	2,122.13	2,328.43
5	1,065.87	1,326.87	2,630.87	2,891.87
6	1,261.61	1,577.31	3,139.61	3,455.31
7	1,457.35	1,827.75	3,648.35	4,018.75
8	1,653.09	2,078.19	4,157.09	4,582.19
9	1,847.83	2,327.63	4,664.83	5,144.63
10	2,029.57	2,564.07	5,159.57	5,694.07
11	2,211.31	2,800.51	5,654.31	6,243.51
12	2,393.05	3,036.95	6,149.05	6,792.95
13	2,574.79	3,273.39	6,643.79	7,342.39
14	2,756.53	3,509.83	7,138.53	7,891.83
15	2,822.88	3,626.18	7,517.88	8,321.18
16	2,889.23	3,742.53	7,897.23	8,750.53
17	2,955.58	3,858.88	8,276.58	9,179.88
18	3,021.93	3,975.23	8,655.93	9,609.23
19	3,088.28	4,091.58	9,035.28	10,038.58
20	3,154.63	4,207.93	9,414.63	10,467.93
21	3,220.98	4,324.28	9,793.98	10,897.28
22	3,287.33	4,440.63	10,173.33	11,326.63
23	3,353.68	4,556.98	10,552.68	11,755.98
24	3,420.03	4,673.33	10,932.03	12,185.33
25	3,486.38	4,789.68	11,311.38	12,614.68
26	3,552.73	4,906.03	11,690.73	13,044.03

Financial Assistance

General Information

Financial aid plays a vital role at UT 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 financial aid funds, makes UT Pan American an outstanding educational value.

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

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

Student Financial Services
Student Services Building, First Floor
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2501
Web: <http://www.utpa.edu/finaid/>
Questions: Askrio.utpa.edu

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

Federal Student Aid Information Center

1-800-4-FED-AID (1-800-433-3243)

TTY users (for the hearing-impaired) can call 1-800-730-8913

Hours: 8 a.m.-midnight (Eastern Time)

To find out if the federal student financial aid application has been processed, or to see the information on the application, a student should call 1-800-433-3243 or visit the website at www.fafsa.gov.

Application Process

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

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

1. Be a U.S. citizen or eligible non-citizen.
2. Be registered with Selective Service (if required).
3. Be enrolled as a regular student working toward a degree in an eligible program.
4. Have signed a statement of educational purpose

certifying that any federal aid received will be used for educational purposes.

5. Be enrolled as a regular student working toward a degree in an eligible degree program.
6. Is not in default on any federal or institutional loan, and does not owe a refund on any federal or state grant program.
7. Demonstrate financial need, except when applying for funds from a program that does not require financial need.
8. Be in satisfactory academic standing and making Satisfactory Academic Progress (as defined by the Satisfactory Academic Progress Policy described below) at the University.
9. Have completed a financial aid application and all required documentation is on file by the appropriate deadline.

IMPORTANT: Students **MUST** be **ADMITTED** to a degree-seeking graduate program to be eligible for financial aid.

Students with **CONDITIONAL ADMITTANCE** (i.e., conditions that have been specified by the graduate program) participating in a **CERTIFICATION PROGRAM** or participating in **CONTINUING EDUCATION** are **NOT** eligible to receive financial aid.

How to Apply for Financial Aid

- File your FAFSA over the Internet at <http://www.fafsa.gov>; request a PIN at www.pin.ed.gov. (This is your electronic signature for FAFSA on the web).
- Visit the UTPA Financial Aid Express Lab for one-on-one electronic FAFSA submittal assistance.

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

Additional Information on the Federal Verification Procedure

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

information submitted as part of the verification process, the applicant will be notified via e-mail through a revised Financial Aid Notification.

The UTPA School Code for the FAFSA is 003599.

Application Deadlines

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

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

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

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

Benefits of Applying Early

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

The Disbursement Process

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

1. When the student accepts his/her award, the award will be credited to the student's account to pay for educational expenses 10 days before the first day of classes.
2. Stafford Loan funds will be credited to the student's account 10 days prior to the first class day for students who have successfully completed the entrance loan counseling and master promissory note.
3. Financial aid disbursements: Any credit remaining in the student's account after all tuition/fees and all educational expenses have been paid will be disbursed during the week prior to the first class day. Direct deposit can be set up at <http://assist.utpa.edu> so that any disbursements are deposited into the student's bank account.

NOTE: Changes in class schedule or enrollment status may cause an adjustment or cancellation of your awards, which will require you to pay a balance or return funds. If direct deposit has not been set up, any disbursements will be

mailed to your mailing/billing address on file with the Office of the Registrar.

Satisfactory Academic Progress Policy For Graduates (Master's and Doctoral Programs)

Introduction

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

Qualitative or Grade Point Average (GPA)

The student must maintain a GPA required for continued enrollment consistent with the University's graduation requirements:

Students working on a master's or doctoral degree must maintain a 3.0 GPA.

All courses with a grade of A, B, C, and F are counted in the calculation of GPA. Satisfactory Academic Progress cannot be determined until all incomplete (I) grades are resolved. Transfer grades that are accepted by the University are not counted in the determination of GPA because they are not part of the institutional or native GPA (effective fall 2010). However, the credits from all attempts accepted by UTPA are counted in the calculation of pace and the maximum time frame requirement because transfer credits will be applied to meet prerequisites and course requirements for a student's UTPA degree. Repeated courses are included in the calculation of GPA, pace, and the maximum time frame requirements. Audited courses do not count toward the qualitative or quantitative standards. Credit is not granted for audited courses.

PACE (Progression, Requirements)

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

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

General Information

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

Maximum Time Requirements

Students must complete graduate degree requirements in a maximum time period according to federal regulation. Maximum time frame will be measured by the number of credit hours attempted.

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

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

Attempted credit hours, for purposes of calculating maximum time frame, include all courses with grades of A, B, C, P, S, F, U, W, WP, WF, IP, CR, DF, DP, DR, DX, or I, or courses for which grades have not yet been assigned. Transfer credits, AP credits, or CLEP credits accepted for the student's academic program or degree is also counted when measuring the maximum time frame to complete the degree or program.

Warning Period

Students who fail to meet the minimum requirements, other than maximum time frame, will be allowed one warning semester to restore satisfactory standing. Financial aid will be processed for one semester only. At the end of the warning semester, the student must have regained satisfactory SAP status in order to continue receiving financial aid. Students having reached the maximum time frame to complete a program cannot receive a warning semester.

Financial Aid Suspension

Students who fail to earn the minimum requirements during the warning semester will be considered as not making SAP and all financial assistance will be terminated or suspended until the student regains minimum satisfactory academic progress standards. Students may re-establish eligibility for upcoming periods by achieving the satisfactory progress standards. After a student has re-established eligibility, he/she may be considered for aid for upcoming periods but not for periods during which the standard had not been met.

Appeals

A student who is denied aid because of a failure to meet satisfactory progress standards after the warning semester may appeal this determination to the Satisfactory Academic Progress Appeals Committee of the Office of Student Financial Services by completing a Student Appeal Form by published deadlines. An appeal must be based on significant mitigating circumstances, circumstances that seriously affected academic performance. Examples of possible mitigating circumstances are serious illness, severe injury, death of a family member, and other similar situations. The appeal must include an explanation of why the student failed to meet SAP standards, and what has changed that will now allow the student to regain satisfactory SAP status. Appeals can only be approved if it appears that the student can regain satisfactory SAP status after the end of the following semester of enrollment, or if the student can regain satisfactory SAP status by following an academic plan that will lead to timely completion of the degree program. An appeal that is denied because the student is not able to regain satisfactory SAP status before reaching maximum time frame is not appealable.

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

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

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

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

Distance Learning

UT Online Consortium

An agreement exists between UTPA and other UT institutions to award eligible student Title IV aid when taking courses at two or more of those institutions. This agreement, entered into between each of the named institutions, hereinafter referred to as Home or Host Institutions, is

intended to provide the basis for the Home Institution to pay and/or certify federal/state and institutional student financial assistance to UT Online Consortium students matriculated at a Home Institution and also studying at a Host Institution.

Participating Institutions

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

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

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

A student wishing to enroll in a distance-learning course can refer the following websites for additional information:

<https://tis.telecampus.utsystem.edu> and <http://www.utcoursesonline.org/courselogin>.

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

Study Abroad Program

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

Students who apply for the financial assistance for study abroad should apply in the same manner as if they were planning on being in residence at UT Pan American. A study abroad student must file a FAFSA and must be participating in a program that is pre-approved to be a financial aid eligible program. This is determined by the agreements that are set up by the Office of International Programs for each specific program. Students should verify with both the Office of International Programs and the Office of Student Financial Services to determine if the program they are interested in is an eligible program for financial aid purposes.

To be considered for Title IV funds, the study abroad

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

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

NOTE: Financial aid funds will be disbursed the week before the first day of the program for the respective semester. As a result, students will need to contact their school to make payment arrangements with their respective study abroad programs.

Types of Financial Assistance for Graduate Students

Grants

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

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

Student Loans

Students who are eligible for Federal Stafford Direct Loans, unsubsidized loans and/or Perkins Loans should be aware that a completed entrance loan counseling session and master promissory note are required for all loan applicants.

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

The William D. Ford Federal Direct Loan (Stafford Direct Loans) Program: The Direct Loan Program is one of the federal student aid programs offered by the Department of Education, which provides students with a simple, inexpensive way to borrow money to pay for education after high school. The Direct Loan program offers subsidized and unsubsidized Stafford Loans. The first step in the application process is the completion of the FAFSA. After the student's FAFSA is processed, Student Financial Services will review the results and advise the student as to his or her loan eligibility. Before receiving any loan disbursements through the Direct Loan program, every student borrower will have

General Information

to complete an entrance counseling session and an electronic master promissory note. Once these two requirements are complete, Student Financial Services will receive electronic confirmation that the information has been completed and funds will be credited to the student's University account 10 days before the first day of class. When loans are awarded for one semester only the first half is credited first and the second half is credited approximately mid-semester.

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

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

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

Emergency Tuition and Fee Loans: Emergency loans are available to UT Pan American students needing assistance in paying registration costs. Emergency loans must be paid back to the University during the same semester in which they are borrowed. An applicant will be assessed a \$20 processing fee per semester. Students may borrow up to the amount of tuition and applicable fees. Applications and information about the emergency loan program are available at the Student Loan Collections Office, Room 214, in the Administration Building.

Federal Work-Study Program (FWS)

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

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

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

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

More information about work-study programs can be found at www.utpa.edu/finaid.

State Exemptions

Adopted Students Formerly in Foster or Other Residential Care

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

Exemption for Students Under Conservatorship of the Dept. of Family and Protective Services

This program provides exemption of tuition and required fees for persons who were in foster care or other residential care under the conservatorship of the Department of Protective and Regulatory Services on or after the day preceding their 18th birthday, the day of the student's 14th birthday if the student was eligible for adoption on or after that day, or the day the student received a high school diploma or equivalent. In order to take advantage of this exemption the student must enroll as an undergraduate no later than the third anniversary of date of discharge from that care or the 25th birthday.

Senior Citizen Exemption

Senior citizens may be exempt from payment of tuition for up to six credit hours per term on a space-available basis. A senior citizen is defined as a student of age 65 or older.

Exemption for Texas Veterans (Hazlewood Act)

The purpose of the Hazlewood Act (Section 54.203) is to encourage U.S. veterans to pursue higher education. To qualify for the Hazlewood Act the applicant must be a veteran who at the time of entry into the U.S armed forces:

- Is a Texas resident.
- Designated Texas as home of record.
- Entered the service in Texas.
- Have served at least 181 days of active military duty, as indicated as "net active service" (the sum of 12(c) and 12(d) on the DD 214).
- Have received an honorable discharge or separation or a general discharge under honorable conditions.
- Have no federal veterans education benefits or have federal veterans education benefits dedicated to the payment of tuition and fees only (such as Chapter

33 or 31; Pell and SEOG are not relevant) for term or semester enrolled that do not exceed the value of Hazlewood benefits.

- Are not in default on a student loan made or guaranteed by the state of Texas.
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its costs), unless the college's governing board has ruled to let veterans receive the benefit while taking non-funded courses.

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

Hazlewood-Legacy Program (Transfer of Hazlewood Benefits)

Eligible veterans may assign unused hours of exemption eligibility to a child under certain conditions to be eligible, the child must:

- Be a Texas resident.
- Be the biological child, stepchild, adopted child, or claimed as a dependent in the current or previous tax year.
- Be 25 years or younger on the first day of the semester or term for which the exemption is claimed (unless granted an extension due to a qualifying illness or debilitating condition).
- Make satisfactory academic progress in a degree, certificate or continuing education program** as determined by the institution.

If the child to whom hours have been delegated fails to use all of the assigned hours, a veteran may assign the unused hours that are available to another dependent child.

Veteran's spouses are not eligible to receive a transfer of unused hours.

Students are entitled, not to exceed 150 credit hours, to an exemption of payment of tuition, fees (excluding student property deposit fees, student services fees, and any charges for lodging, board, or clothing) and other required charges, that would otherwise be paid to attend The University of Texas Pan-American.

Hazlewood Exemption for Eligible Dependents (Children and Spouses)

This program is for the children or the spouse of members of the U.S. armed forces who were killed in action, who die or died while in service, who are missing in action, whose death is documented to be directly caused by illness or injury connected with service in the U.S. armed forces, or who become totally disabled for purpose of employability according to the Department of Veterans Affairs disability rating as a result of a service-related injury. Children or spouses of a veteran who at the time of entry into the U.S. armed forces:

- Is a Texas resident.

- Designated Texas as home of record.
- Entered the service in Texas.
- Have a parent or is the spouse of a veteran of the U. S. armed forces, Texas National Guard, or Texas Air National Guard who died as a result of service-related injuries or illness, is missing in action, or became totally disabled for purposes of employability as a result of service-related injury or illness.
- Have no federal veterans education benefits or have federal veterans education benefits dedicated to the payment of tuition and fees only (such as Chapter 33 or 31; Pell and SEOG Grants are not relevant) for the term or semester enrolled that do not exceed the value of Hazlewood benefits.
- Are residents of Texas as of the term or semester in which they enrolled.
- Provide proof from Dept. of Defense or from the VA regarding veteran parent's death or disability related to service.

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

Military: Children of U.S. Military who are Missing in Action or Prisoner of War (MIA/ POWs)

To provide an education benefit to the children of persons listed as Missing in Action or Prisoners of War by the U.S. Department of Defense.

- Are Texas residents.
- Are 21 or younger or 15 or younger and receiving most of his/her support from a parent,
- Have documentation from the Department of Defense that a parent, who is classified as a Texas resident, is missing in action or a prisoner of war.
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its costs).

Exemption covers tuition, service fees, lab fees, building use fees, and all other fees except room, board or clothing fees, or deposits in the nature of security for the return or proper care of property. No funds may be used to pay tuition for continuing education classes for which the college receives no state tax support.

Combat Exemption for Children of Military Service Members

To provide an education benefit to a child or stepchild of a member of the armed forces, who is deployed to active duty in a combat zone outside the United States. Dependent child or stepchild who:

- Is a Texas resident or is entitled to pay resident tuition.
- Has a parent who is a member of the U.S. armed forces.

General Information

- Is enrolled for any semester or other academic term during which the service member of the armed forces is deployed on active duty for the engaging in a combative military operation outside the United States.

Children must provide proof (ex-military orders, pay records from service member's unit to which he/she is assigned, etc.) of service member's deployment from the Department of Defense for the relevant semester or academic term. If additional documentation is needed, students may wish to contact the National Personnel Records Center

Exemption covers the student's tuition only. Fees are not covered.

Exemption for Blind and Deaf Students

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

Exemption for Firefighters Enrolled in Fire Science Courses

Eligible students must be firefighters enrolled in course offered as a part of fire science curriculum. They are exempted from tuition and laboratory fees.
Distance/Off-Campus Learning Exemption

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

Office of the Vice President for Business Affairs
1201 W. University Drive
Student Services Building, Room 5.101
Edinburg, TX 78539-2999

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

Mandatory or Discretionary Fee Exemption:

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

Students must submit a written request with supporting documentation (as needed) to:

Office of the Vice President for Business Affairs
1201 W. University Drive
Student Services Building, Room 5.101
Edinburg, TX 78539-2999

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

Mexican Nationals

Citizens of Mexico may apply for a Nonresident Tuition Waiver. To be eligible, a student must have or obtain an F-1 student status, enroll full time and must apply before the required deadline dates. Students who have filed for permanent residency are not eligible. For information about this program, contact the Office of International Admissions and Services at the University Center, Room 113, (956) 665-2922.

For additional information on any of these programs contact:

Student Financial Services
Student Services Building, First Floor
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/665-2501
Web: <http://www.utpa.edu/finaid>
Questions: Askrio.utpa.edu

Also visit the Texas Higher Education Coordinating Board website at <http://www.collegeforalltexans.com/>.

Scholarships

The University of Texas-Pan American awards a variety of scholarships through the University Scholarship Committee and departmental committees. These scholarships are based on various prerequisites and are intended to recognize students for their outstanding academic accomplishments and future potential. These awards are made possible through the generosity of local as well as national business firms, organizations, individuals and University endowed funds.

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

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

are submitted and complete by Jan. 15 of each year.

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

Outside Scholarships

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

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

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

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

Fifth-Year Accounting Student Scholarship Program

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

The program can provide up to \$10,000 (lifetime maximum) to eligible students to assist with the cost of completing the educational requirements to sit for the CPA exam in Texas. In order to apply, students must:

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

this requirement.

- Demonstrate financial need.

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

Professional Nursing Scholarship Program

The purpose of this program is to provide financial assistance to students who are planning on becoming professional nurses. No individual award may be for more than the student's financial need. The maximum award is \$2,500. Some, but not all the funds are targeted to students from rural communities, while others are targeted to graduate students in nursing.

To apply, the student must:

- Be a Texas resident.
- Show financial need (FAFSA must be completed to show basis of need).
- Register for the Selective Service or be exempt from this requirement.
- Enroll in the classes leading to licensure as a professional nurse.
- Be enrolled at least half time.
- Applications are available at the Student Financial Services office. Funding is limited; therefore, only complete applications will be considered.

Good Neighbor Scholarship

A limited number of Good Neighbor Scholarships (as prescribed by the Texas Higher Education Coordinating Board), which provide exemption of tuition, are available to native-born citizens and residents from nations of the Western Hemisphere other than the United States. Information is available from the Office of International Admissions and Services at the Learning Assistance Center, Room 156; phone (956) 665-2922.

Fellowships

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



Enrollment

General Information

Classification

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

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

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

Doctoral students have been accepted to a doctoral program.

Course Information

Graduate classroom course information, including a list of courses to be offered each semester, syllabi (including textbook information) and faculty curriculum vita of each regular instructor, may be found at the following website, www.assist.panam.edu (Texas Education Code, Section 51.974).

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 189. The listing includes the following information:

Student Learning Outcomes

Each undergraduate degree program has identified learning outcomes that it expects its graduates to achieve by the end of the program. These student learning outcomes are reflected in the courses offered by the program and may be found on the course syllabi at www.assist.utpa.edu.

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 188 in the Glossary for more information and example.)

Course Frequency Information

If the course is normally taught on a regular schedule, such as every fall or every fall and spring semester, this information is provided under the course title. If circumstances warrant,

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

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

Course Description

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

Course Numbers

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

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

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

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

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

Grading Policies

Grading System

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

A	Excellent	(4 grade points per hour)
B	Good	(3 grade points per hour)
C	Satisfactory	(2 grade points per hour)
F	Failure	(0 grade points per hour)
P	Passing	(not considered in calculating grade points or attempted hours)
NP	No Pass	(not considered in calculating grade points or attempted hours)
S	Satisfactory	(not considered in calculating grade points or attempted hours)

U	Unsatisfactory	(not considered in calculating grade points or attempted hours)
IP	In Progress	(not considered in calculating grade points or attempted hours)
I	Incomplete	(not considered in calculating grade points or attempted hours)
CR	Credit	(not considered in calculating grade points or attempted hours; however, hours are counted in total earned hours)
NC	No Credit	(not considered in calculating grade points or attempted hours)
DR	Course dropped	(not considered in calculating grade points or attempted hours)
W	Withdrawal	(not considered in calculating grade points or attempted hours)

Calculation of Graduate Grade Point Average (GPA)

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

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

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

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

Grade points are assigned as follows:

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

An illustration of the method of calculation of the GPA follows:

Points Total

Course	No.	Grade	Hours Attempted	Points
ENG	6300	A	3 hours X 4 pts. per hr.	= 12
COMM	6340	B	3 hours X 3 pts. per hr.	= 9
ENG	6360	A	<u>3 hours</u> X 4 pts. per hr.	= <u>12</u>
			9	33

TOTAL ATTEMPTED HOURS = 9

TOTAL GRADE POINTS = 33

To calculate the GPA for this example, divide the grade points by the attempted hours as follows:

$$33 \text{ divided by } 9 = 3.67$$

Incomplete Grades

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

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

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

The Office of the Registrar must receive the complete Request for Grade of Incomplete Form with all required signatures by the published deadline for faculty to enter grades or an NR grade will be entered. An NR grade will be converted to an F at the end of two weeks.

Grade Change

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

A student may access his or her grades by using ASSIST via telephone at (956) 665-3040, via web (assist.utpa.edu), and kiosk services. See page 42 for more information.



Registration Procedures

Registration

Students must register for their courses online using ASSIST or in person at the Office of the Registrar 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 ended. 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, Sec. 9.31a).

ASSIST Registration (Web)

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

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

Dropping/Withdrawing

If a student chooses not to attend a class or classes/he is responsible for officially dropping or withdrawing through the Office of the Registrar. (See the sections on Withdrawal from the University and on Dropping a Course on page 43.) Students who decide not to attend and do not officially complete the drop or withdrawal process through the Office of the Registrar will be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will “automatically” be dropped from their classes if they do not attend or do not pay. (If a student has requested some form of financial assistance, payment may have been posted to his or her account.) Refer to the published Schedule of Classes for refund schedules. Withdrawal for military service: A student who withdraws as a result of being called to active military service may choose (1) to receive a refund of tuition and fees for the semester; (2) if eligible, to be assigned an incomplete in each course; or (3) at the instructor’s discretion receive a final grade in courses where he/she has completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material. Policies affecting students who are absent for military service, but do not withdraw are articulated in the “Military Absences” section on page 46 or at <http://www.utexas.edu/student/registrar/catalogs/gi06-07/ch4/ch4g.html#Absence.for.military.service>. In accordance

with Texas Education Code, 51.907, undergraduate students who first entered college in the Fall 2007 semester, or later, may not drop more than a total of six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. A student may appeal a drop, if he/she shows good cause. Contact the Office of the Registrar for details concerning the appeals process.

Degree Plan

Students are expected to meet with their graduate adviser and file an official degree plan during their first semester of enrollment. The degree plan is agreed upon with the graduate program adviser and signed by the department chair and dean and submitted to the Graduate School for inclusion in the student’s official file. In general, a student may follow the degree requirements listed in this catalog by the respective departments of the University, thus planning a schedule of courses. However, having a degree plan on file is a requirement for graduation, and helps to avoid taking courses that will not satisfy degree requirements. If the student wishes to make changes to the filed degree plan, a signed change form must be submitted to the Graduate School.

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

Advisement

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

Maximum Course Load

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

Guidelines Related to Registration in Doctoral Courses

1. Registration in an individual studies, research or similar course shall imply an expected level of effort on the part of the student comparable to that associated with the same credit value.
2. A doctoral student not on campus who is required to register solely for the purpose of satisfying a continuous enrollment requirement shall be required to register for no more than three hours during each

term.

- Only in unusual circumstances shall a doctoral student register for more than 12 hours in a given semester or summer session and then only if approved in advance by the dean of the college and the vice provost for graduate studies.

Maximum Period for Completion Doctoral Degrees

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

For information on maximum period for completion for students pursuing a master's degree, see Master's Degree Requirements on page 49.

Registration Policies

Dropping a Course

A student is "dropping" a course or courses if he or she remains enrolled in a minimum of one credit hour after all course drops have been completed. Students who drop all classes for which they are enrolled are considered to have withdrawn from the University for that semester. (For more information on Withdrawal, see the section below on Withdrawal from the University.)

To drop a course or courses after the official census date (12th class day, published in the University's academic calendar), a student must: (1) obtain a Class Drop Form from the Office of the Registrar; (2) obtain the required signatures, and (3) return the completed form to the Office of the Registrar, Student Services Building, Room 1.150 by the last date to drop, as listed in the University's academic calendar.

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

If a student chooses not to attend a class or classes, he/she is responsible for officially dropping or withdrawing through the Office of the Registrar. Students who decide not to attend and do not officially notify the Office of the Registrar may be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will "automatically" be dropped from their classes if they do not attend or do not pay. (Although the student may not have paid for classes personally, payment may have been posted to his or her account by a financial assistance agency. It is important that

the student officially notify the Office of the Registrar of his or her intention not to attend.) Refer to the Registration Bulletin on the web at www.assist.utpa.edu.

Withdrawal from the University

To withdraw from the University, a student must complete a formal withdrawal procedure through the Office of the Registrar prior to the end of a regular semester or one week prior to the end of a summer session. Withdrawals must be requested by completing the appropriate withdrawal form, or by providing written notification, to the Office of the Registrar, Student Services Building, Room 1.150. Students who cannot come to campus may contact the Office of the Registrar at (956) 665-2201. A withdrawal form will be accepted by fax on or before the deadline to drop or withdraw.

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

Non-Credit Enrollment

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

A student who enrolls in a course for credit may change the enrollment to non-credit by completing a Non-Credit Form in the Office of the Registrar, Student Services Building, room 1.150, no later than 30 calendar days into a regular semester or 10 calendar days into a summer session from the date classes begin.

Auditing Classes

Students must obtain special permission from the instructor of record to audit or visit a class. Students who wish to audit graduate classes (5000-9000 level) must be eligible to enroll in the course for credit before they will be allowed to audit.

Students auditing classes do not receive academic credit and do not have the course or courses listed on their academic record. One may enroll as an auditor at any time by (1) obtaining a "Class Audit" Form from the Office of the Registrar, (2) having it approved by the instructor of the class to be audited, (3) paying the required fee at the Office of Payments and Collections, and (4) using the receipt as an admission card to the class. Such approval may be granted only when space is available and if the instructor permits the student to be a visitor. Instructors reserve the right to refuse

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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.

Residency

Residency for tuition purposes is determined by regulations set forth by the state of Texas. 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 submitted by the student. The requirements are outlined on page 24 of the Fiscal Policies section of this catalog.

Reservation of Work by Undergraduates for Graduate Credit

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

1. The undergraduate student must lack no more than 12 hours of work to complete all requirements for his or her first bachelor's degree.
2. These 12 hours (or less) must be completed in the same semester, or two six-week summer sessions, in which the student is taking the graduate courses.
3. Total enrollment must not exceed 15 semester hours in a regular semester, or 12 semester hours in two six-week summer sessions.
4. The student has a minimum graduate admission GPA of at least a 2.5 (on a 4.0 scale) on work completed to date. (For information on the calculation of graduate admission GPA, see page 21.)
5. The application for such graduate work is submitted to the Graduate School.

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

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

Other Procedures

Identification Cards

Every student enrolled at The University of Texas-Pan American must possess an official identification card, issued through the supervision of the dean of students. The card

remains the property of the University.

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 Office of Student Development and the Student Union Recreation Room.
- Identification for receipt of transcripts at the Office of the Registrar.
- Identification for receipt of awards from Student Financial Services.
- Use of the University food service meal plans.
- Use of recreation facilities.
- Use of the Student Health Services.
- Purchase of campus parking permit.
- Campus library privileges.
- Voting in campus elections and referendums.
- Identifying oneself to a University official when requested to do so.
- Use of computer equipment in computer labs.

This card is non-transferable. Beginning freshmen and first-time entering transfer 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 Development, 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) 665-2660.

Name Change

A student or former student may change the full, legal name on his or her permanent academic record by completing a Change of Name Form and submitting the appropriate documentation as follows to the Office of the Registrar, Student Services Building, Room 1.150:

1. Misspelling: Student must present a copy of the birth certificate.
2. New Legal Name: Student must present a copy of the signed court order showing the authorized new legal name.
3. Marriage: If a student wishes to assume his or her spouse's name, the student must present a copy of the marriage certificate.
4. Divorce: Students who wish to discontinue the use of a married name and resume the use of their former name, or another name, must present a divorce decree or signed court order showing court restoration of the former, or other, name.

Official Means of Communication with Students and UTPA

The official means of communication with students from The University of Texas-Pan American regarding administrative issues is the UTPA e-mail address assigned by the University. Important information, such as financial aid award notification, registration information, class wait list, payment deadlines, and how to access bills and grades, is sent to the student's UTPA e-mail address. It is the student's responsibility to activate this address upon admission and check it often.

Change of Address and/or Telephone Number

If a student changes his or her address or telephone number, he/she is expected to notify the Office of the Registrar 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 the Registrar. No special consideration will be given to students who move and fail to receive the communication. Students whose mail is returned to the University will not receive additional communication until an address change has been submitted.

Enrollment Verification

Enrollment verification for lending agencies can be requested from the National Student Clearinghouse at www.studentclearinghouse.org, phone: (703) 742-7791, fax: (703) 742-7792. If further assistance is required, contact Student Financial Services, Student Services Building, Room 1.194.

Enrollment verifications for personal use (i.e., insurance companies, employment) can also be requested at the National Student Clearinghouse.

Full-time graduate – A graduate student who is enrolled for at least nine hours of credit during a regular semester, or six hours of credit during the summer sessions (six hours can be taken during one summer session or split between the two summer sessions)

Half-time graduate – A graduate student who is enrolled for at least six hours of credit during a regular semester or three hours of credit during the summer sessions

Transcripts

A student may secure an official transcript of his or her UT Pan American record by presenting picture identification at the Office of the Registrar, by requesting the transcript in writing from the Office of the Registrar, or on the web at www.assist.utpa.edu. Transcripts will be issued at no charge.

The term "transcript of record" is understood to refer to the recorded results of the student's work in the classroom, and it is a comprehensive record of an individual's total academic progress at UT Pan American. This statement will contain all the important facts pertaining to the student's admission, academic level and academic achievements. No partial or incomplete classroom records (for example, with

grades of F omitted) will be given. Students who owe debts to the University, are delinquent or in default on a student loan, or owe a repayment on a student grant overpayment will have their official transcripts withheld until the university debts are paid or satisfactory arrangements have been made to repay the student loan or student grant over payment.

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 given a grade of DR. It is the student's responsibility to officially withdraw 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, s/he must officially drop or withdraw through the Office of the Registrar by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (See the Registration Bulletin or the web at www.assist.utpa.edu for refund periods for drops and withdrawals.)

Absences on Religious Holy Days

Definition

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

Rules

Students who are excused from classes for the observance of a religious holy day are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to make up missed work or missed examinations. Instructors are encouraged to provide those students the opportunity to make up the work (either prior to or after the anticipated absence) or otherwise adjust the grading to ensure that the student is not penalized for the absence.

Absences for University-recognized Activities

Students absent while representing the University in officially recognized University activities (such as athletic, or scholastic events, 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

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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

Veterans

The Veterans Services Center certifies veterans to receive educational benefits for attendance at UT Pan American. The Veterans Services Center is located in the University Center, Room 218; phone (956) 665-7934. Students receiving VA educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Progress and Scholastic Probation and Suspension (see page 47). Students receiving educational benefits must report any changes made to their schedule to the Veterans Services Center. Students who do not report changes in their schedule may be subject to repayment by the Veterans Administration.

Military Absence

Under certain circumstances, a student who is required to participate in active military service is excused from scheduled classes or other required activities and will be allowed to complete an assignment or exam within a reasonable time after the absence. The excused absence is permitted only if the student will not miss more than 25 percent of the total number of class meetings or the contact hour equivalent (not including the final examination period) for the specific course or courses in which the student is enrolled at the beginning of the period of active military service.

Readmission guidelines for a student who withdraws to perform active military services are as follows. These guidelines apply to a student who withdraws from an institution of higher education to perform active military service a member of the U.S. armed forces or the Texas National Guard, except that this section does not apply to a student who withdraws from an institution solely to perform one or more training exercises as a member of the Texas National Guard. A. For any academic term that begins after the date a student is released from active military service but no later than the first anniversary of that date, the institution of higher education from which the student withdrew shall admit the student, without requiring re-application of charging a fee for readmission, if the student is otherwise eligible to register for classes at the institution. On readmission of the student under this subsection, UTPA shall:

1. Provide the student any financial assistance previously provided by the institution to the student before the student's withdrawal if the student meets current eligibility requirements for the assistance, other than any requirement directly affected by the student's service, such as continuous enrollment or another similar training requirement.
2. Allow the student the same academic status that the student had before the student's withdrawal including

any course credit awarded to the student by the institution.

B. UTPA requires reasonable proof from a student of the fact and duration of the student's active military absence.

In accordance with Education Code Section 51.3042, eligible former members of the armed forces admitted as an undergraduate student or readmitted as an undergraduate student (after having withdrawn to perform military service) will be given course credit (1) for all physical education courses UT Pan American requires for an undergraduate degree and (2) for additional semester credit hours, not to exceed 12, to satisfy any elective course requirements for the student's degree program for courses outside the student's major or minor. To be eligible, a veteran must have graduated from an accredited public or private high school or a high school operated by the U.S. Department of Defense, and be honorably discharged from the U.S. armed forces after completing two years of service or discharged because of disability. To receive credit a DD214 verifying eligibility must be provided to the Office of Admissions.

The University of Texas-Pan American follows the guidelines established by the American Council on Education's Guide to the Evaluation of Educational Experiences in the armed services to assess potential transferability of Military Occupational Specialties.

Acceptable forms of documentation include:

- AARTS Transcript (Army ACE Registry Transcript)
- CCAF Transcript (Community College of the Air Force transcript)
- SMART Transcript (Sailor/Marine ACE Registry Transcript)
- Form DD-214 (Report of Separation)
- Form DD-295 (Application for the Evaluation of Learning Experience During Military Service)

To be considered official, any of the credentials above (except Form DD-214) must be sent to The University of Texas-Pan American directly from the issuing agency. Students/applicants may submit an original DD-214; a certified copy will be made for office use and the original returned.

Credentials (except form DD-214) should be sent to:
The University of Texas-Pan American
Office of Admissions
1201 W. University Dr.
Edinburg, TX 78539-2999

Unlike college or high school transcripts, submission of military credentials for potential transfer credit is optional and is neither required for undergraduate admission nor subject to admission deadlines. But any credit awarded counts toward admissibility, so official documents should arrive as early as possible.

Continuous Enrollment

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

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

Leave of Absence

Graduate students may apply in writing for a leave of absence for no more than two long semesters. This request must be approved in advance of the leave by the graduate adviser, program director, dean of the college, and the vice provost for graduate studies. The student on leave must reapply for admission in order to return to the University, but readmission during the approved period of the leave is automatic and the application fee is waived. A leave of absence does not change the time limit for completion of the student's graduate program of study.

Scholastic Probation and Suspension of Graduate

A minimum GPA overall (cumulative) of 3.0 (B) is required for a graduate degree. Every semester hour of C, must be balanced by one of A, since an overall average of B is required for a degree. Should graduate or doctoral students make less than a B average (3.0 GPA) in a given semester, they will be placed on scholastic probation. During the following semester or summer session, they must recoup an overall B average or be automatically suspended. Students may be re-admitted only after petitioning the dean of the college and receiving approval from the dean and the vice provost for graduate studies. Master's students with other than clear admission are subject to criteria set forth under the sections on conditional admission on page 22.

IMPORTANT NOTE: All students are responsible for

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

Graduate Degree Information

Degree Programs

UT Pan American offers the following types of graduate curricula:

1. Graduate curricula leading to one of the following master's degrees conferred by the University:

- Master of Accountancy (MACC)
- Master of Arts (MA)
- Master of Arts in Interdisciplinary Studies (MAIS)
- Master of Business Administration (MBA)
- Integrated Program: Bachelor of Business Administration/Master of Science in Accounting (BBA/MSA)
- Master of Education (M.Ed.)
- Master of Fine Arts (MFA)
- Master of Public Administration (MPA)
- Master of Science (MS)
- Master of Science in Engineering (MSE)
- Master of Science in Criminal Justice (MSCJ)
- Master of Science in Nursing (MSN)
- Master of Science in Interdisciplinary Studies (MSIS)
- Master of Science in Social Work (MSSW)

2. Graduate curricula leading to certification for teachers and administrators at the master's degree level.

3. Graduate curricula leading to the Doctor of Philosophy (Ph.D.) with a major in business administration or a major in rehabilitation counseling, the doctor of education (Ed.D.) in educational leadership, and the Pharm.D. in Pharmacy in cooperation with The University of Texas at Austin.

Graduate Degrees and Certifications

Graduate degrees are offered in the following fields:

Doctoral Degrees

College of Arts and Humanities

Spanish (Ph.D.) in cooperation with The University of Houston

College of Business Administration

Business Administration (Ph.D.)

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College of Education

Educational Leadership (EdD)

College of Health Sciences and Human Services

Rehabilitation Counseling (Ph.D.)

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

Master's Degrees

College of Arts and Humanities

Art (MFA)

Communication (MA)

Creative Writing (MFA)

English (MA)

English as a Second Language (MA)

History (MA)

Music (MM)

Spanish (MA)

Master of Arts in Interdisciplinary Studies (MAIS)

Concentrations in

English

History

Spanish

College of Business Administration

Business Administration (MBA)

Accountancy (MACC)

Accounting (MSA)

College of Education

Bilingual Education (M.Ed.)

Early Childhood Education (M.Ed.)

Educational Administration (M.Ed.)

Educational Diagnostician (M.Ed.)

Educational Leadership (Ed.D.)

Elementary Education (M.Ed.)

Guidance and Counseling (M.Ed.)

Kinesiology (Physical Education) (MS)

Reading (M.Ed.)

Secondary Education (M.Ed.)

School Psychology (MA)

Special Education for the Culturally

and Linguistically Diverse Learner (M.Ed.)

College of Engineering and Computer Science

Computer Science (MS)

Engineering (MSE)

Electrical

Manufacturing

Mechanical

Engineering Management

Information Technology (MSIT)

College of Health Sciences and Human Services

Adult Health Nursing (MSN)

Communication Sciences and Disorders (MS)

Family Nurse Practitioner (MSN)

Occupational Therapy (MS)

Physician Assistant Studies (MPAS)

Rehabilitation Counseling (MS)

Social Work (MSSW)

College of Science and Mathematics

Biology (MS)

Chemistry (MS)

Mathematical Science (MS)

Master of Science in Interdisciplinary Studies (MSIS)

Chemical Education

Physics

College of Social and Behavioral Sciences

Criminal Justice (MSCJ)

Clinical Psychology (MA)

Experimental Psychology (MA)

Public Administration (MPA)

Sociology (MS)

Master of Arts in Interdisciplinary Studies (MAIS)

Concentrations in

Anthropology

Global Security Studies and Leadership

Certification Programs

College of Education

Graduate Teacher Education - Secondary Education

Graduate Teacher Education - Kinesiology

Reading Specialist

Licensed Professional Counselor

Principal's Credential

Superintendent's Credential

Graduate Certificates

College of Arts and Humanities

Communication Training and Consulting

Media Relations and Strategic Communication

Mexican American Studies

College of Business Administration

Advanced Business Administration

Healthcare Administration and Leadership

College of Social and Behavioral Sciences

Global Security Studies and Leadership

Graduate Curriculum

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

Doctoral Degree Requirements

For specific requirements, see the catalog sections on the Ph.D. in business administration on page 106, the Ed.D. in educational leadership on page 127, the Ph.D. in rehabilitation counseling on page 158, and the cooperative doctorate in pharmacy on page 144.

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

Master's Degree Requirements

The following are requirements for a master's degree:

1. A student cannot receive two master's degrees at the same time. Students who wish to pursue more than one major that fall under different disciplines must decide at the point of graduation the type of degree he/she will receive. For students wishing to pursue a new degree, please refer to the section of "Additional Master's Degrees" on page 50.
2. A minimum of 36 hours of coursework or with the thesis option, 24 hours of coursework plus six hours for the thesis will be required. Once a student registers for the thesis, he/she must continue to enroll each succeeding semester (except summer sessions) until the thesis is completed. Credit is counted only once per thesis course level unless additional hours are required by the degree program. For more information, see the sections of the catalog that pertain to the specific degree programs.
3. During or at the end of the student's final semester of work, the student may be given a comprehensive written examination as required by the graduate degree program. Students must arrange comprehensive examinations with their adviser prior to graduation.
4. Degree programs may allow a student the option to include a maximum of six semester hours of work that is not a part of the student's major field. It is the option of each graduate program to determine if graduate courses taken outside of the college are acceptable.
5. A maximum of 18 hours in 5000-level courses may be taken for graduate credit toward a master's degree and/or as required by program accreditation standards.
6. Seven-Year Time Limit: All requirements must be completed within one seven-year period. Work more than seven-years-old will not meet graduation requirements and can be reinstated only by special permission of the vice provost for graduate studies.
7. A student must have a cumulative GPA of at least 3.0 in master's coursework.
8. Residency: The majority of credits toward a graduate degree must be earned in residence.

Dissertation and Thesis Requirements

Each college and/or department may have its own guidelines for the development and completion of the dissertation or thesis. A master's level student considering

the thesis option should contact the department head or graduate studies director in his or her college or program for specific procedures. A doctoral student should refer to the dissertation requirements and procedures in the program's degree information or contact the doctoral program director.

A manual that details the University requirements for the format and submission of a dissertation or thesis is available on the Graduate School website.

Deadlines for the submission of the draft (generally a month before the last day of the semester) and the final copy of the thesis or dissertation (generally three to four days before the last day of the semester) can be found on the graduate website. All submissions and payments for copies of manuscripts and copyright are done online at the Proquest website. A minimum of two copies must be ordered online - for the library and graduate program - and the student may order additional personal copies at his or her discretion. A department may require additional copies of the thesis (at additional binding expense to the student). Copies of theses and dissertations are made available to interested members of the public in the library.

Extensions to the draft deadline may be requested in writing to the graduate office. Students who do not submit a draft by the draft deadline will not have their thesis or dissertation title listed in the commencement ceremony program. No extensions will be accepted for the final deadline.

The thesis and dissertation requirement will not be considered complete until the student has uploaded a final copy on the Proquest website that has been approved by the graduate office and submits a signed "Certification of Completion of Thesis or Dissertation" form to the graduate office.

Interdisciplinary Programs

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

Master of Arts in Interdisciplinary Studies

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

Non-thesis Option

- 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 six hours of coursework.

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The following areas — anthropology, english, history, and global security studies and leadership have defined the courses required for a concentration in their area. See pages 90, 83 and 182, 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 global security studies and leadership have defined concentration areas in this catalog.
2. At least six hours of coursework in the area of concentration must be upper-level graduate work (6000-level).
3. At least three hours of coursework must be taken in research methods or statistics in the area of concentration.
4. At least 12 hours must be taken outside the field of concentration. These courses must be taken from at least two additional disciplines.
5. No more than 12 hours of coursework may be taken from the College of Education. A maximum of six hours may be taken in the College of Business Administration.
6. Students seeking the MAIS degree must successfully complete 36 hours of graduate work (30 if they choose to conduct a thesis) and meet all other University and program requirements.
7. All requirements must be completed within one seven-year period. Work more than seven years old will not meet graduation requirements unless reinstated by special permission of the vice provost for graduate studies.

Master of Science in Interdisciplinary Studies

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

Non-thesis Option

- 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 six hours of coursework.

The following areas of physics and chemical education have defined the courses required for a concentration in their area. See pages 176, respectively.

Additional Master's Degrees

A student seeking an additional master's degree must:

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.

Complete all requirements for the additional major including admissions as set forth in this catalog or by the graduate degree program.

Complete all requirements for the additional degree including GPA requirements, elective courses, etc. as set forth in this catalog.

A maximum of six hours of credit for courses from one master's degree may count toward the credit requirements for other master's degrees. See the appropriate graduate adviser for details.

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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 18 for graduate students and is listed in the Undergraduate Catalog for undergraduate students.

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

Degree Plan

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

Graduation Policies and Procedures

Application for Degree

All students who intend to receive a degree from UT Pan American must submit a completed Application for Degree Form to the Graduate School by the published deadlines in the University Calendar. Applications received after the deadlines may be processed for the next available graduation

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

Graduation Fee

A nonrefundable graduation fee of \$32 is charged for undergraduate and graduate degrees. This fee is payable at the Office of Payments and Collections, Student Services Building, Room 1.145, at the time the candidate presents the application for Graduate School. This fee is used to pay for the processing of applications for graduation, music, graduation speakers, postage, diplomas, and other expenses associated with graduation.

Transfer of Graduation Date

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

Filing of Dissertation and Master’s Thesis

For students who are graduating under the thesis option, the original thesis and two copies (signed by the student’s supervisory committee) and a receipt for the required fees must be submitted to the Graduate School 30 days prior to graduation. The specific deadline date is listed in the academic calendar in this catalog, beginning on page 6.

Commencement Exercises

The University of Texas-Pan American holds commencement exercises and confers degrees three times each year in December, May and August. Regalia (Cap and Gown) All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the University Bookstore. (No students will be permitted to participate without the proper regalia.)

Correspondence

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

Academic Support Services

University Library

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

The Library houses a collection of over 900,000 print and online books, more than 46,000 print and online journal subscriptions, over a million microform units and over 26,000 audiovisual items. Library collections and databases may be accessed at workstations throughout the building, on and off campus. Instructional services are provided in state-of-the-art-classrooms. Of interests to the region are the special collection materials contained in the Lower Rio Grande Valley Historical Collection and the Rio Grande Folklore Archive. Materials available pertain to the Texas counties of the Rio Grande Valley and northeastern Mexico.

The library has close to 300 microcomputer workstations connected to the Library local area network (LAN) and available for accessing information resources and e-mail. Connectivity with the Internet provides access to UTPA online catalog and online full text resources as well as the catalogs of other library collections. Library patrons are offered services that include reference and information consultation and assistance, computerized database searching, interlibrary loan and library use instruction.

All UT Pan American students must be registered in order to borrow materials from the library and use other services during the fall and/or spring semester(s). Graduate students who are registered in the spring semester will automatically receive privileges for the summer sessions. Students who are not registered during the fall or spring semester(s) may obtain the public patrons card. The benefits of the Public Patrons card extended for one full year are that members: May check out materials according to circulation policies

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

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

All online resources of the University Library are available throughout the year. Detailed information about hours and services may be obtained at the circulation desk or the Library Web site at www.lib.utpa.edu, or by calling (956) 665-3306 or voice/TDD (956) 665-2763.

The University Writing Center

The University Writing Center (UWC), located in the University Library, offers UTPA students and faculty assistance with academic writing in all disciplines. Peer tutors, certified by the College Reading and Learning Association, assist students with their class writing assignments. Individual tutoring in writing may include the following: clarifying an assignment; assisting with the drafting process from ideas, notes and outlines; revising and editing an essay for effective organization, sentence structure and grammatical issues; creating appropriate voice and tone; identifying errors and methods for correction; assisting with all documentation styles; and assisting with incorporating source materials. In addition to offering on-site and online weekend writing tutoring, the UWC provides an area for developmental education labs, a computer classroom for student drop-in use or for faculty members to reserve, and a resource area and meeting room for the University's Writing Across the Curriculum program.

University Writing Center
University Library, Room 101 East
Phone: (956) 665-2538
Web: www.utpa.edu/writingcenter

English Language Institute

The English Language Institute provides English language instruction to students, professionals and other individuals whose first language is not English; enhances ESL students' ability to participate successfully in an American cultural environment; and academically prepares students to pursue a degree at an American university. The English Language Institute has offered non-credit intensive and semi-intensive instructional English programs to nonnative speakers from the community and abroad since 1972.

English Language Institute
Lamar Building, Room. 1,
Phone: (956) 665-2133
E-mail: eli@utpa.edu
Web: <http://www.utpa.edu/eli>



Student Services and Information

Advanced Services for Student Information Supported by Technology

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

With ASSIST technology, students may access general academic and financial information from home or any place they have access to the web. Personal information is protected by the student's UTPA username and password. Student receives these as a part of the admission process. For assistance, the student may contact the IT Help Desk located in the Academic Services Building, Room 1.102.

Official Means of Communication with Students and UTPA

The official means of communication with students from UT Pan American regarding administrative issues is the UTPA e-mail address in the student's record in the BANNER Student Information System. Important information, such as financial aid award notification, registration information, class wait-listing, payment deadlines, how to access bills and grades, and other official notifications are sent to the student's UTPA email address. It is the student's responsibility to activate that address upon admission and check it regularly.

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

Web services include:

- University Catalogs
- Class Schedules
- Admission Information
 - Apply for Admission
 - View Admission Status
- Registration (UTPA username and password required)
 - Registration for classes
 - Change your class schedule (during the add/drop period published in the official calendar)
 - View Class Availability
 - Add your name to the waiting list for a closed class
 - Student Schedule (graphic)
 - Student Schedule (detailed)
 - View Fee Assessment
- Student Records (UTPA username and password required)
 - View Address Information
 - Update Address
 - Update Phone Numbers
 - View Grades

- Request Official Academic Transcripts
- View Unofficial Academic Transcripts
- View Account Summary
- Change PIN Number
- View Your Degree Plan
- Financial Aid Awards (UTPA username and password required)
- Payment Services
 - Credit card
 - E-check
 - Emergency Loan Applications

Student Rights and Responsibilities

Purchase of Textbooks

The University of Texas-Pan American advises students that they are not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer including an online retailer. (Texas Education Code 51.9705; 19 TAC 4.215)

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

D. Safety and Mode of Travel

1. All Motor Vehicle Travel

- 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.
- Alcohol and Illegal Substance Prohibited Occupants of motor vehicles shall not consume, possess, or transport any alcoholic beverages or illegal substances 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.
- 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. Twelve and 15-passenger vans shall not be used to carry more than nine occupants (including the driver) at any one time. Consideration should be given to decreasing the number of passengers if luggage is to be transported in the same vehicle; luggage should be stored under seats or in the rear storage area and in a manner that does not obstruct the view of the driver.
- 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 12 or 15-passenger

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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.

- **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 and any applicable university policy.
- **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 eight hours per authorized driver. There should be no driving between the hours of 11 p.m. and 6 a.m. without prior approval from the Department of Environmental Health and Safety.

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

- **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 UTS157-The University of Texas System Business Procedures Memorandum 16-05-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02).
www.utsystem.edu/bpm/16.htm.
- **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. In addition, operators shall have a current Motor Vehicle Record on file with the University Physical Plant. Drivers must have a rating of three points or less as required by UTS157-The University of Texas System Business Procedures Memorandum 16-05-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02).
- **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.

- **Rental Vehicles**
All vehicles are required to be rented through the UTPA Travel office. All drivers of rental vehicles must be listed on the vehicle rental agreement.
- **Business Procedures Memorandum**
For additional information regarding insurance, safety, and mode of travel, refer to UTS157 BPM 16-5-02, entitled Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02). A copy of the policy can be obtained at the Office of the Vice President for Business Affairs or at www.utsystem.edu/bpm/16.htm.
- **Coordination of Travel**
Each group must designate a travel coordinator, who is responsible for submission of all travel documents, as well as for carrying all necessary documents on the trip. When possible, the adviser or group sponsor should travel with the group and serve as travel coordinator.
In case of accident, the travel coordinator or designee will contact the University Police Department, who will notify appropriate personnel. All students involved in a vehicle accident are required to visit Student Health Services upon their return to the University regardless of the extent of any injury incurred. Students on official university travel are covered by the institutions' accident insurance policy. Pre-college University program participants who are not enrolled at UTPA are not eligible for medical care at Student Health Services.
- **Prior to leaving, each group must receive a pre-trip orientation, which must include:**
Applicable rules of conduct as per the University's Student Conduct Code and this Student Travel Policy. Itinerary and contact information. Safety issues while traveling and while at the destination point.
- **Students who use their own vehicle or another privately owned vehicle for approved travel are expected to follow all safety requirements set out in this policy.**
- **All students who travel with a group are required to stay with that group throughout the duration of the trip.** Pre-college University program participants, who are not enrolled, as students at the University must abide by the policy and procedures of their program.

Annual Security and Fire Safety Report

The Annual Security and Fire Safety Report (previously known as the Student Right to Know and Campus Security Act) contains critical information you should familiarize yourself with about campus safety and security. Described in detail is the University Police Department (UPD): law enforcement arrest authority; crime reporting policies, procedures and responses; working relationships with state and local police; encouragement of prompt reporting of crimes; and access control procedures. Additionally, there is information concerning drug and alcohol abuse prevention, sexual assault information, weapons on campus, and policies on missing students who reside in on-campus housing and fire safety information. The Annual Security and Fire Safety Report contains data about crime statistics for the three previous calendar years detailing the reported crimes that occurred on the UTPA Main Campus, UTPA McAllen Teaching Site, UTPA at Starr County Facility, and the support facilities to include property owned or controlled by The University of Texas-Pan American and on public property or property immediately adjacent to and accessible from the campuses.

This information is required by the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act and the Higher Education Reauthorization Act and is provided by The University of Texas-Pan American Police Department. The Annual Security and Fire Safety Report is available on the web at <http://www.utpa.edu/campussafety> or a hard copy will be provided if you contact the Empowerment Zone at (956) 665-5375.

During emergency situations the University Police Department can be reached by calling 911 or dialing "HELP" (ext. 4357) from any University phone. For non-emergencies the police can be reached by dialing (956) 665-7151. The University Police Department is located at 501 N. Sugar Road or they can be reached at police@utpa.edu. Crimes reported on the UT Pan American campus can be accessed at the following web address: www.utpa.edu/campussafety.

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) 665-7151.

Annual Fire Safety Report

The UTPA's Department of Environmental Health and Safety (DEHS) is charged with oversight of the Fire Safety Program which ensures compliance with National Fire Protection Association (NFPA) mandates and Best Management Practices associated with fire and facilities safety in an institutional environment. All faculty, staff and students are required to comply with these specific mandates. In accordance with the HEOA, UTPA publishes an Annual Fire Safety Report, which outlines key information relating to the fire safety related systems associated with UTPA campus housing. Included in the report is a description of the fire safety system for each on-campus student housing facility, the number of fire drills held the previous year, UTPA's policies or rules on portable electrical appliances, smoking, and open flames, procedures for student housing evacuation, policies for fire safety education and training programs, reporting mechanisms in the event

of a fire, and plans for future improvements in fire safety. Also included in this report are Fire Safety Statistics, which outline the number of fires and the cause of each fire, the number of injuries or deaths, and the value of any property damage. In addition to the Annual Fire Safety Report, a Fire Log is maintained by the DEHS which lists any fires that occurred in an on campus housing facility. For each fire, information regarding the location of the fire, the nature of the fire, the date the fire occurred, and the time of day the fire occurred is included.

A hard copy of the Annual Fire Safety Report and the Fire Log is available by visiting the DEHS offices, located at Lamar Bldg. 1.202, 1201 West University Dr., Edinburg, Texas, or it can be requested by contacting the Department of Environmental Health and Safety at (956) 665-3690. In addition, a copy of the report can be accessed via the Department of Environmental Health and Safety website at <http://utpa.edu/safety/fire>.

Important Phone Numbers

University Police 665-7151 or H-E-L-P (4357)
 Counseling Psychological Service 956-665-2529
 Dean of Students 956-665-2260
 Student Health Services 956-665-2511
 Empowerment Zone 956-665-7005
 Substance Abuse Services 956-665-7005
 Disability Services 956-665-7005
 Student Judicial Services 956-665-7005

Higher Education Opportunity Act (HEOA)

The Higher Education Opportunity Act (HEOA) specifies The University of Texas-Pan American requirements for hate crime reporting, emergency response and evacuation procedures, as well as missing student notification and fire safety related issues for UTPA's on campus housing facilities.

Emergency Response and Evacuation Procedures

The University of Texas Police Department, in conjunction with the Department of Environmental Health and Safety, is charged with the Emergency Response Program on the UTPA campus. The program's primary goal is to ensure that, in the event of an emergency, the UTPA responds in a manner that protects the lives and health of the UTPA community and any visitors; protects university facilities, property and equipment; and provides for the restoration of university facilities, functions and services. It is vital that all faculty, staff and students be familiar with emergency procedures associated with a manmade or natural disaster that may occur on campus. In accordance with the HEOA, UTPA has developed a policy statement that outlines Emergency Response and Evacuation Procedures utilized to immediately notify the campus community upon the confirmation of a significant emergency or dangerous situation. The procedures include a list of organizations responsible for carrying out the emergency process, a description of the

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process the institution will use to determine the extent of the emergency, who to notify, the content of the notification, and the mechanisms used to initiate the notification system. In addition, procedures are also included for disseminating the emergency information to the larger community.

A hard copy of the Emergency Response and Evacuation Procedures are available by visiting the DEHS offices, located at Lamar Bldg. 1.202, 1201 West University Dr., Edinburg, Texas, or it can be requested by contacting the Department of Environmental Health and Safety at (956) 665-3690. In addition, the procedures can be accessed via the Department of Environmental Health and Safety website at <http://utpa.edu/safety/emergency>.

Gang-Free Zones

Premises owned, rented or leased by The University of Texas-Pan American and areas within 1,000 feet of the premises are "gang-free" zones. Certain criminal offenses, including those involving gang-related crimes, will be enhanced to the next highest category of offense if committed in a gang-free zone by an individual 17 years or older. See Texas Penal Code, Section 71.028.

Family Educational Rights and Privacy Act (FERPA)

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

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

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

1. To appropriate University officials who require access to educational records in order to perform their legitimate educational duties.
2. To officials of other schools in which a student seeks or intends to enroll, is enrolled in or receives services from, upon request of these officials.
3. To federal, state or local officials or agencies authorized by law.
4. In connection with a student's application for, or receipt of, financial aid.
5. To accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose for which it was obtained.

6. To the parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954. This is for financial aid and financial records only and does not include academic records.
7. In compliance with a judicial order or subpoena provided a reasonable effort is made to notify the student in advance, unless such subpoena specifically directs the institution not to disclose the existence of a subpoena.
8. In an emergency situation if the information is necessary to protect the health or safety of students or other persons.
9. To an alleged victim of any crime of violence, the results of the alleged perpetrators 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) 665-7151.

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

Where required by regulations, a record of requests for disclosure and such disclosure of personally identifiable information from student education records shall be maintained by the custodian of the public record for each student and will also be made available for inspection pursuant to this policy. If the University discovers that a third party who has received student records from the university has released or failed to destroy such records in violation of this policy, the university will determine any future access by that third party and may take further appropriate action. Respective records 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 recognize

activities and sports

5. Dates of attendance
6. Most recent previous educational institution attended
7. Classification
8. Degrees and awards received
9. Date of graduation
10. Physical factors (height and weight) of athletes
11. Photographs
12. University e-mail address

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

Access to File

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

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

Academic Records

Office of Admissions and New Student Services:

New Student Services: SSB 1.109

Office of the Registrar: SSB 1.150

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

Graduate Students:

Office of Graduate Studies, ADM 116

Student Affairs/Student Services Records

Counseling and Psychological Services: Director, UC 309

Learning Assistance Center: Executive Director, LAC 100

Student Services: Dean of Students Office, UC 104

Residence Life: Director, UC 315

Career Services: Director, SSB 2.101

Financial Records

Business Office: Vice President for Business Affairs,
SSB 5.101

Student Financial Services Director, SSB 1.136

Educational records do not include:

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

January 1, 1975.

3. Records of instructional, administrative and educational personnel that are kept in the sole possession of the maker and are not accessible or revealed to any other individual except a temporary substitute for the maker.
4. Records of law enforcement units.
5. Employment records related exclusively to an individual's employment capacity.
6. Medical and psychological records.
7. Thesis or research papers.
8. Records that only contain information about an individual after the individual is no longer a student at the institution.

Challenge to Record

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

A student's 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 the student 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 students expense. The hearing officer who will adjudicate such challenges will be appointed by the vice president for business affairs in non-academic matters and by the provost/vice president for academic affairs in academic matters.

Decisions of the hearing officer will be final, will be based solely on the evidence presented at the hearing, 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

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challenges were unfair or not in keeping with the provisions of the Act may request, in writing, assistance from the president of the University.

Copies

Students may have copies of their educational records and this policy. These copies will be made at the students 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.

Drug and Alcohol Policy

The University of Texas-Pan American is a drug-free school and complies with the Drug Free Workplace Act of 1990. The Drug Free School and Communities Act of 1989 requires institutions of higher education to adopt and implement programs to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol. Information concerning these programs must be distributed to students annually. For information regarding these policies please refer to the following: Drug Free School and Communities Act provided by the Office of the Dean of Students at www.utpa.edu/dos.

UTPA is committed to maintaining a safe and healthy environment for the campus community. Alcohol and other drugs should not interfere with the University's educational mission. All UTPA students, faculty members, staff members, administrators and visitors are subject to local state and federal laws regarding the unlawful possession, distribution, or use of alcohol or illegal drugs.

The following university policies apply H.O.P. 4.8.1, H.O.P. 4.9.1, and H.O.P. 5.5.2. The possession, transportation, and/or consumption of alcohol by individuals less than 21 years of age is strictly prohibited. University police officers enforce laws regulating the use of alcoholic beverages and underage drinking with court appearance citations, referral to the Office of Student Rights and Responsibilities and/or arrest. Alcoholic beverages may not be consumed or possessed in public areas of the university. Additional policies regarding alcohol apply at campus housing areas. If a student is found responsible for violating the alcohol policies, sanctions range from educational programs to expulsion. In addition, according to the UTPA Student Code of Conduct the use, manufacture, possession, sale, or distribution on the campus of the sub-stances defined and regulated under Chapters

481, 484 and 485 of the Texas Health and Safety Code, except as may be allowed by the provisions of such articles. If a student is found responsible of the illegal use, possession, or sale of a drug or narcotic on campus, the minimum penalty shall be suspension from the institution for a specified period of time; and/or suspension of rights and privileges.

Hazing

Hazing in state educational institutions is prohibited by both state law (Sections 51.936 & 37.151 et seq., Texas Education Code) and by the Regents' Rules and Regulations (Rule 50101). Individuals or organizations engaging in hazing could be subject to fines and charged with criminal offenses. Additionally, the law does not affect or in any way restrict the right of the University to enforce its own rules against hazing.

Individuals

A person commits an offense if the person:

- Engages in hazing; Solicits, encourages, directs, aids or attempts to aid another engaging in hazing;
- Recklessly permits hazing to occur; or
- Has firsthand knowledge of the planning of a specific hazing incident involving a student in an educational institution, or has firsthand knowledge that a specific hazing incident has occurred, and knowingly fails to report that knowledge in writing to the dean of students or other appropriate official of the institution.

Organizations

An organization commits an offense if the organization condones or encourages hazing or if an officer or any combination of members, pledges, or alumni of the organization commits or assists in the commission of hazing.

Definition

The term "hazing" is broadly defined by statute to mean 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 an organization. Hazing includes, but is not limited to:

- Any type of physical brutality, such as whipping, beating, striking, branding, electronic 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 subject the student to unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student.
- Any activity involving the consumption of a food, liquid, alcoholic beverage, liquor, drug or other substance 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 that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame or humiliation, 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 subdivision.
- Any activity that induces, causes, or requires the student to perform a duty or task that involves a violation of the Penal Code.

The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution. The University of Texas System Board of Regents' Rules and Regulations, Rule 50101, Sec. 2.8 provides that, "Any student who, acting singly or in concert with others, engages in hazing is subject to discipline. Hazing in state educational institutions is prohibited by state law (Texas Education Code, Section 51.936). Hazing with or without the consent of a student whether on or off campus is prohibited, and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline. Initiations or activities of organizations may include no feature that is dangerous, harmful, or degrading to the student, and a violation of this prohibition renders both the organization and participating individuals subject to discipline."

Hazing with or without the consent of a student is prohibited by the System, and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline. Initiations or activities by organizations may include no feature, which is dangerous, harmful, or degrading to the student, and a violation of this prohibition renders both the organization and participating individuals subject to discipline. Activities which under certain conditions constitute acts that are dangerous, harmful, or degrading, in violation of Rules include but are not limited to: calisthenics, such as sit-ups, push-ups, or any other form of physical exercise; total or partial nudity at any time; the eating or ingestion of any unwanted substance; the wearing or carrying of any obscene or physically burdensome article; paddle swats, including the trading of swats; pushing, shoving, tackling, or any other physical contact; throwing oil, syrup, flour, or any harmful substance on a person; rat court, kangaroo court, or other individual interrogation; forced consumption of alcoholic beverages either by threats or peer pressure; lineups intended to demean or intimidate; transportation and abandonment (road trips, kidnaps, walks, rides, drops); confining individuals in an area that is uncomfortable or dangerous (hot box effect, high temperature, too small); any type of personal servitude that is demeaning or of personal benefit to the individual members; wearing of embarrassing or uncomfortable clothing; assigning pranks such as stealing; painting objects; harassing other organizations; intentionally messing up the house or room for clean up; demeaning names; yelling and screaming; and requiring boxing matches or fights for entertainment.

Immunity

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event in good faith and without malice to the dean of students or other appropriate official of the institution and immunizes that person for participation in any judicial proceeding resulting from that report. Additionally, a doctor or other medical practitioner who treats a student who may have been subjected to hazing may make a good faith report of the suspected hazing activities to police or other law enforcement officials and is immune from civil or other liability that might otherwise be imposed or incurred as a result of the report. The penalty for failure to report is a fine of up to \$1,000, up to 180 days in jail, or both. Penalties for other hazing offenses vary according to the severity of the injury, which results and include fines from \$500 to \$10,000 and/or confinement for up to two years.

Student Conduct

The University considers cultivation of self-discipline by its students to be of great importance in the development of responsible citizens. Therefore, the University expects its students to maintain standards of personal discipline that are in harmony with the education goals and purpose of the University. Although the University is committed to the full support of the constitutional rights of its students, including due process, it also has an equal obligation to protect its educational purpose and the interest of the student body. The University must therefore be concerned with the actions of individuals or groups that are in conflict with the welfare and integrity of the institution or in disregard of the rights of other students or faculty.

Attendance at a tax-supported educational institution of higher learning is optional and voluntary. By such voluntary entrance into the academic community of the University, students voluntarily assume the obligations of performance and behavior imposed by the University relevant to its lawful missions, processes, and functions. When students enter the University, it is assumed that they have a serious purpose and a sincere interest in their own social and intellectual development. They are expected to learn to cope with problems with intelligence, reasonableness, and consideration for the rights of others; to obey laws and ordinances of the nation, state, and community for which they, as well as the University, are a part. As students prize rights and freedoms for themselves, they are expected to respect the rights and freedoms of others.

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

by state or federal authorities for the same act.

Students are subject to federal, state, and local laws as well as University rules and regulations. Students are subject to reasonable disciplinary action, including suspension and expulsion in appropriate cases, for breach of federal, state, or local laws or University rules and regulations. Individuals who are not currently enrolled at the University remain subject to the disciplinary process for conduct that occurred during any period of enrollment, and for statements, acts, or omissions related to application for enrollment or the award of a degree.

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

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

Copyrighted Material

Using peer-to-peer (P2P) file-sharing applications to illegally share copyrighted music and movies is the number one way students violate federal copyright law. Students, faculty and staff are all obligated to comply with federal law and university policy regarding appropriate use of information technology and avoiding copyright infringement. Bandwidth

The university enforces network policies regarding bandwidth usage and limits. Under some circumstances, the university may activate monitoring tools designed to detect abnormal or potentially infringing traffic in order to determine its appropriateness and, if necessary, initiate disciplinary procedures.

Copyright complaints and legal content alternatives

If you copy and distribute copyrighted material without legal permission, you may be found liable for civil or criminal copyright infringement. Civil penalties for Federal Copyright infringement range from \$750 per song to \$150,000 in damages for each willful act. Criminal penalties can run up to five years in prison and \$250,000 in fines.

The university cannot protect you from a copyright complaint. The university may also be required by law to disclose information about you to a complainant for use in pursuing legal action against you. The process for handling DMCA notices received by the university is outlined in the Digital Millennium Copyright Act (DMCA) policy. The penalties for violation of copyright law can range from university sanctions to civil and criminal prosecution.

You are not protected from financial penalty just because you received material at no cost or are distributing material with no charge. Your only protection is to not possess or distribute any unlicensed copyrighted material. There are

many Web sites that provide legal online music, movies, and other content. Refer to the Keep It Legal page for a list of services that comply with the DMCA.

Peer-to-peer software

Peer-to-peer (P2P) applications such as BitTorrent, BearShare, Limewire, Morpheus, iMesh and KaZaA make it easy for you to share files, and there are legitimate uses for this class of software. However, please keep the following guidelines in mind.

Network bandwidth

Most P2P applications are configured so other users can access your hard drive and share your files all the time. This constant file transfer can degrade your computer's performance and generate heavy traffic loads on the university network. P2P applications can consume your weekly allocation very quickly.

The university's network bandwidth consumption is monitored. If your usage impacts the overall performance of the network, your computer may be blocked.

If you use a P2P application to share content legally, you should know how to control or disable the application.

Privacy

If you are running a P2P application, you may be inadvertently sharing personal information, such as e-mail messages or credit card information. You need to make sure you know which files and data the application is sharing. You should know how to control or disable your P2P application to ensure that you are not inadvertently sharing personal information.

Security

Viruses are easily spread using P2P applications. Many P2P applications include "malware" in the download, so you may be unintentionally infecting your computer. To protect your computer, keep your anti-virus program up-to-date and only install programs acquired from reputable sources. You can download anti-virus software on the [UTPA Downloads](#) site.

Resource Use

Some P2P applications use your computer as a computational or storage resource for another organization's use. This may not be an acceptable use of state-owned resources such as the university network or university-owned computers. Do not permit any such use of your system without the consent of the university. For assistance, please contact the Information Security Office at infosecurity@utpa.edu.

University policy and assistance

By running a P2P application, you may be consuming excessive network bandwidth and/or violating copyright law, both of which are violations of the university's rules for acceptable use of information technology. You may also be sharing confidential information and/or making your computer insecure.

If you have questions about P2P applications, please call the IT Help Desk at (956) 665-2020 or send an e-mail to [the ITS Help Desk](#).

Sexual Assault

Introduction

The University of Texas-Pan American is committed to creating and maintaining a community in which students, faculty, and staff can work and study in an atmosphere free from all forms of harassment, exploitation, or intimidation. Every member of the University community should be aware that the University does not tolerate sexual assault and harassment and that such behavior is prohibited by both federal and state law and by University policy. UTPA will take whatever action may be needed to prevent, correct, and if necessary, discipline and/or prosecute behavior that violates this policy and the law. All forms of sexual assault and all attempts to commit such acts are regarded as serious University offenses that are likely to result in suspension, required withdrawal, expulsion or termination. Prosecution may take place in accordance with Texas criminal law, independent of University actions.

Description of Educational Programs

There are many campus resources that can help campus community members to reduce their risk of becoming a victim of sexual assault:

Self Defense Program (UTPA Police Department): The UTPA Police Department has a one hour introductory self-defense class where physical, non-physical and avoidance techniques are covered as well as resources to continue self-defense education.

The Empowerment Zone: Multiple programs are offered focusing on sexual responsibility, healthy relationships, and self-assault awareness throughout the year. More information can be obtained by calling (956) 665-5375.

Campus Assault Response Effort (CARE) aims to provide proactive educational programs to raise awareness of sexual assault of both women and men. In addition CARE provides comprehensive services for victims of sexual assault including Sexual Assault Advocates. More information can be obtained by calling (956) 665-5375.

Procedures to Follow

Reporting a sexual assault to the UTPA Police Department (956) 665-7151) may help to prevent another assault. Reporting the incident does not mean that the survivor must proceed with a prosecution. Immediately following an attack, the survivor should try to write down everything she or he remembers about the incident, including the physical description of the suspect(s) and any further information about the identity or location of the suspect(s).

A CARE advocate trained to deal with sexual assault issues in a confidential way will be available to talk to you. The advocate can assist you in contacting on- and off-campus resources for medical, legal, or emotional support. They also can assist you in changing an academic and/or living situation following an incident of sexual assault.

The CARE office, located in the Empowerment Zone (UC322), is open Monday through Friday. After hours and

weekends, a survivor or witness can contact the University Police Department at (956) 665-7151 and the officer will arrange for a CARE advocate to meet with you. When you talk to a CARE advocate, you are not making a report or a formal complaint. All discussions are private and confidential and do not commit you to further action. Conversations with advocates are not disclosed to anyone without your expressed permission, unless there is a threat of physical harm to you or others. No matter when the assault occurred or what you decide to do, consider counseling. Sometimes talking can be the most important step to healing. You may contact the CARE office at any time to arrange an appointment. Friends of survivors may seek counseling and support as well.

CARE can:

- Provide information on legal and disciplinary reporting options.
- Support a complainant through any private University complaint.
- Assist confidentially to manage the impact on academic and living situations following asexual assault (provided reasonable alternatives are available).
- Assist in obtaining on- and off-campus resources for medical, legal, or emotional support.

Notification of Law Enforcement

Victims of sexual assault or persons who have information regarding a sexual assault are strongly encouraged to report the incident to the UTPA Police Department immediately. It is the policy of the UTPA Police Department to conduct investigations of all sexual assault complaints with sensitivity, compassion, patience and respect for the victim. Investigations are conducted in accordance with guidelines established by the Texas Penal Code, Code of Criminal Procedure and the Hidalgo County District Attorney's Office.

University police officers attend the Sexual Assault Family Violence Investigators Course (SAFVIC). This course is designed to provide law enforcement officers with the tools they need to effectively investigate and prevent sexual assault and family violence. The curriculum covers crucial aspects for law enforcement's response to these crimes, as well as the creation and use of community-based resources to assist law enforcement's efforts.

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

Students may also contact local law enforcement agencies. Members of the UTPA Police Department and other University offices will assist the student in notifying the appropriate agency in the applicable jurisdiction.

Changes in Academic and Living Situation

The Dean of Students Office can assist the victim with issues including, but not limited to, class schedule changes, withdrawal procedures, or campus housing relocation. If the reporting student provides credible evidence that the accused student presents a continuing danger to person or property or poses an ongoing threat of disrupting the academic process, the Office of Student Rights and Responsibilities may take interim disciplinary action against the accused student as appropriate.

Procedures for Campus Disciplinary Action

A student may also choose to report the assault to the Office of Student Rights and Responsibilities for disciplinary action regardless of whether or not the student has decided to press criminal charges. A student may also file a re-report of sexual assault against another student, or a faculty or staff member, by directly contacting the Director for Student Rights and Responsibilities ((956) 665-5375). Procedures for resolving complaints regarding sexual harassment and assault are detailed in the Handbook of Operating Procedures. In any case, both the accuser and the accused are entitled to the same opportunities to have others present during any disciplinary proceedings. Both the accuser and the accused with by informed of the outcome of any proceedings.

During any sexual assault complaint proceeding, the University has a wide range of latitude when developing sanctions. Those sanctions may range from probation to expulsion from the University.

Solicitation on Campus

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

Student 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 regulations and requirements. Students, therefore, should become familiar with all of the information related to the program contained in the University Catalog, on the University website, and in other official publications.

Each student, by registering, enters an academic 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, s/he should appeal in writing to the appropriate department chair within one year after the disputed grade is issued or the misunderstanding occurred. The department chair will respond in writing to the student within 10 class days of the receipt of the student's written appeal.

Pursuant appeals will be written and directed within 10 class days of the date of the department chair's decision to the school, college, or division College Academic Appeals Committee. The committee will consist of a panel of three faculty members, two of whom may not be from the department in which the appeal originated. The dean or director will appoint the panel members upon receipt of the written appeal and notify the student in writing of the date, time and location of the hearing and the names of the members of the panel. The student and the faculty member involved may appear in person before the panel and present evidence and/or witnesses. The hearing will be closed to

the public, and no person other than the student, the faculty member involved and panel members may be present. No person may represent the student or the faculty member.

After the College Academic Appeals Committee has heard the appeal, it will deliberate and come to a decision. The committee's decision will be written and mailed, or delivered in person, to the student and faculty member within three class days of the close of the hearing. The student may appeal in writing within 10 class days to the dean/director. The dean's/director's decision will be final, and it must be mailed or delivered in person to the student within 10 class days of the receipt of the student's written appeal.

Student Complaint Procedures

Purpose

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

The University of Texas-Pan American 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, citizenship, disability, gender (including sexual harassment), sexual orientation, gender expression, and gender identity or other characteristics that lawfully cannot be the basis for provision of such services. Students are protected from coercion, intimidation, interference, harassment, retaliation, or discrimination for filing a complaint or assisting in an investigation, students may pursue complaints through the Office of the Dean of Students.

Student Advisement for Concerns/Complaints

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

1. 1. Section 2.2.1, Non-Discrimination Policy.
2. 2. Section 2.2.3, Policy Concerning Accommodations for Individuals with Disabilities.
Section 2.2.4, Sexual Harassment and Sexual Misconduct Policy
3. Section 5.2.1, Student Academic Responsibilities and Appeals.
Section 5.8.1 Student Complaint Procedures

Student Services

Career Services

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

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

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

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

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

Bronc Career Connection The Bronc Career Connection (BCC) is the University's official job/résumé posting site available for students and alumni only. All full-time entry-level, experienced, internships and part-time jobs are posted on the BCC. By signing up on the BCC, students can learn more about their upcoming careers and explore their choices. In addition to job postings, students can also sign up for all upcoming job fair and interviews. Students looking for part-time employment either on or off campus can find all of the positions listed by going to the Bronc Career Connection at any time of the year. To find out more information about pursuing a part-time job, a student can make an appointment with his/her appropriate adviser.

Walk In Hours

Meet one-on-one with a career adviser for brief résumé reviews without an appointment. "Walk-in" hours are during specified times Monday-Friday. For hours call (956) 665-2243.

Career Fairs

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

- Fall Career Expo (Fall Semester)
- Criminal Justice Career Expo (Fall Semester)
- Graduate and Professional School Fair (Fall Semester)
- Teachers Job Expo (Spring and Fall Semesters)
- Annual Career Day (Spring Semester)
- Student Employment Job Fair (Spring Semester)

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

The University of Texas-Pan American
Career Services

Student Services Building, Room 2.101
1201 W. University Drive

Edinburg, TX 78539-2999 Telephone: (956) 665-2243 Fax:
(956) 665-2244

Web: <http://careerservices.utpa.edu>

University Testing Services

The University Testing Services is an authorized testing center for numerous national and specialized examinations such as the Graduate Record Examination (GRE), Texas Examinations of Educator Standards (TExES), Graduate Management Admissions Test (GMAT), Test of English as a Foreign Language (TOEFL), Law School Admissions Test (LSAT), Medical College Admission Test (MCAT), and a number of other graduate, professional and licensure exams. It is an integral part of each student's academic progress through graduation; including graduate admissions and professional certification/licensure requirements.

University Testing Services is located at 1407 Freddy Gonzalez Drive, Edinburg, TX 78539, Suite 1.101; phone (956) 665-7585; e-mail: testing@utpa.edu; web: <http://utpa.edu/step>

The University Writing Center

The University Writing Center (UWC), located in the University Library, offers UTPA students and faculty assistance with academic writing in all disciplines. Peer tutors, certified by the College Reading and Learning Association, assist students with their class writing assignments. Individual tutoring in writing may include the following: clarifying an assignment; assisting with the drafting process from ideas, notes and outlines; revising and editing an essay for effective organization, sentence structure and grammatical issues; creating appropriate voice and tone; identifying errors and methods for correction; assisting with all documentation styles; and assisting with incorporating source materials. In addition to offering on-site and online weekend writing tutoring, the UWC provides an area for developmental education labs, a computer classroom for student drop-in use or for faculty members to reserve, and a resource area and meeting room for the University's Writing Across the Curriculum program.

University Writing Center
University Library, Room 101 East
Phone: (956) 665-2538
Web: www.utpa.edu/writingcenter

Empowerment Zone: Disability Services

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

Students with disabilities (including temporary disabilities) are encouraged to contact the Disability Services office for a confidential discussion of their individual needs for academic accommodation. It is the policy of the University of Texas-Pan American to provide flexible and individualized accommodation to students with documented disabilities that may affect their ability to fully participate in course activities or to meet course requirements. To receive accommodation services, students must be registered with the Disability Services office (DS), University Center, Room 322, (956) 665-7005 (video phone (956) 683-6003/1-877-570-7645) or disabilityservices@utpa.edu. For more information about the services offered please also consider visiting our website at www.utpa.edu/disability.

Student Health Services

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

The Student Health Clinic offers the same types of services available from the student's family doctor and much more. Services include general medical care as well as specialty clinics in women's wellness, skin care and STD screening. Also available are routine immunizations and tuberculosis (TB) testing required by many educational programs at UTPA. The Class D pharmacy can fill most prescriptions written in the clinic and carries a selection of over-the-counter items.

Student Health Services is located at 613 North Sugar Road adjacent to the Wellness and Recreational Sports Complex. Students are seen on a limited walk-in basis but will spend less time waiting and be allowed to choose their health care provider if they call ahead for an appointment at 956/665-2511.

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

Services Offered

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

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

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

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

Laboratory: A full-service, economical lab is equipped to do routine procedures as well as specimen collections for more

sophisticated procedures that must be sent to a reference lab for testing.

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

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

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

Important Information About Bacterial Meningitis

The 77th Texas Legislature (2001) required all public institutions of higher education in Texas to notify all new students about bacterial meningitis (Chapter 51, Education Code, Section 51.9191; Chapter 38, Education Code, Section 38.0025).

This information is being provided to all new college students in the state of Texas. Bacterial meningitis is a serious, potentially deadly disease that can progress extremely fast, so take utmost caution. It is an inflammation of the membranes that surround the brain and spinal cord. The bacteria that cause meningitis can also infect the blood. This disease strikes about 3,000 Americans each year, including 100-125 on college campuses, leading to 5-15 deaths among college students every year. There is a treatment, but those who survive may develop severe health problems or disabilities.

What are the Symptoms?

- High fever
- Severe headache
- Rash or purple patches on skin
- Vomiting
- Light sensitivity
- Stiff neck
- Confusion and sleepiness
- Nausea
- Lethargy
- Seizures

There may be a rash of tiny, red-purple spots caused by bleeding under the skin. These can occur anywhere on the body. The more symptoms, the higher the risk. When these symptoms appear seek immediate medical attention.

How is Bacterial Meningitis Diagnosed?

- Diagnosis is made by a medical provider and is usually based on a combination of clinical symptoms and laboratory results from spinal fluid and blood tests.
- Early diagnosis and treatment can greatly improve the likelihood of recovery.

General Information

How is it Transmitted?

- The disease is transmitted when people exchange saliva (such as by kissing, or by sharing drinking containers, utensils, cigarettes, toothbrushes, etc.) or come in contact with respiratory or throat secretions.

How do You Increase Your Risk of Getting Bacterial Meningitis?

- Exposure to saliva by sharing cigarettes, water bottles, eating utensils, food, kissing, etc.
- Living in close conditions (such as sharing a room/suite in a dorm or group home).

What are the Possible Consequences of the Disease?

- Death (in 8 to 24 hours from perfectly well to dead)
- Permanent brain damage
- Kidney failure
- Learning disability
- Hearing loss, blindness
- Limb damage (fingers, toes, arms, legs) that requires amputation
- Gangrene
- Coma
- Convulsions

Can the Disease be Treated?

Antibiotic treatment, if received early, can save lives and chances of recovery are increased. However, permanent disability or death can still occur.

Vaccinations are available and should be considered for: • Those living in close quarters

- College students 25 years old or younger • Vaccinations are effective against 4 of the 5 most common bacterial types that cause 70% of the disease in the U.S. (but does not protect against all types of meningitis).
- Vaccinations take 7-10 days to become effective, with protection lasting 3-5 years.
- The cost of vaccine varies, so check with your health care provider.
- Vaccination is very safe. Most common side effects are redness and minor pain at injection site for up to two days.
- Contact Student Health Services at (956) 665-2511 for details about vaccination.

How Can I Find Out More Information?

- Contact your own health care provider.
- Contact Student Health Services at 613 North Sugar Road, Edinburg, TX, 78539

Contact the regional Texas Department of Health office at:
HEALTH SERVICE REGION 11-Harlingen
601 W. Sesame Drive, Harlingen, TX 78550,
Mail Code 1907
Phone: (956) 423-0130 • Fax: (956) 444-3298

Contact websites: CDC Disease Information
<http://www.cdc.gov/ncidod/dbmd/diseaseinfo/>
American College Health Association
<http://www.acha.org/>

Communicable Diseases

Communicable diseases include, but are not limited to, measles, influenza, viral hepatitis-A (infectious hepatitis), viral hepatitis-B (serum hepatitis), Human Immunodeficiency Virus (HIV infection), Acquired Immune Deficiency Syndrome (AIDS), leprosy, Methicillin-resistant *Staphylococcus aureus* (MRSA), and tuberculosis. Educational pamphlets on HIV infection developed by the Texas Department of Health are available to students at Student Health Services, 613 N. Sugar Road, Edinburg, TX 78539.

Students with communicable diseases, whether acute or chronic, are subject to the following provisions:

A. The information that a student has a communicable disease shall be confirmed when the student brings the information to the attention of The University of Texas-Pan American and the student confirms the information when asked. If the University president or designee has reasonable cause to believe that a student has a communicable disease, the student may be asked to submit to a college-funded medical examination (a) to determine whether the student's physical condition interferes with participation in an educational program or activity, or poses a threat to self or others or (b) a test or medical examination is necessary to manage accidental exposure to blood or other bodily fluids or airborne pathogens (but only when the test or examination is conducted in accordance with the Communicable Disease Prevention and Control Act (Article 4419(b)-1, Section 902(d) of Vernon's Annotated Civil Statutes of the State of Texas).

B. The results of such examination shall be kept confidential in accordance with the Communicable Disease Prevention and Control Act, (Article 4419(b)-1, Vernon's Annotated Civil Statutes of the State of Texas), except that the president or designee shall be informed of restrictions and necessary accommodations. Health care and safety personnel may also be informed to the extent appropriate if the condition is one that might require emergency treatment.

Immunizations

Immunization is required for admission to certain programs of study at The University of Texas-Pan American unless the student submits to the admitting official at least one (1) of the following:

- An affidavit or a certificate signed by the student's

physician (M.D. or D.O.) who is duly registered and licensed to practice medicine in the United States and who has examined the student.

- An affidavit signed by the student or, if a minor, the student's parent or guardian stating that the student declines immunization for reasons of conscience, including a religious belief.
- Proof that he or she is currently up to date with required immunizations.

The Texas Board of Health immunization requirements apply to all students enrolled in health-related courses that will involve direct patient contact in medical or dental care facilities and to veterinary medical students whose course work involves direct contact with animals or animal remains as required by the Texas Board of Health, Education Code 51.933; 25 TAC 97.64. The following immunizations are required for these students:

- Tetanus/diphtheria: One dose of vaccine within the past 10 years.
- Hepatitis B: At least two doses of the three-dose series. The third dose must be received before the student completes the first professional semester. Students may also show serologic confirmation of immunity to the hepatitis B virus via appropriate documentation.
- Varicella: One dose, for students who received this vaccine prior to 13 years of age, or two doses, for students who were not vaccinated before their 13th birthday. A history of varicella illness (chicken pox), validated by serologic confirmation of immunity, is acceptable in lieu of vaccination.

19 Texas Administrative Code Section 21.610 et seq.: Information to students consistent with regulations newly enacted by the Texas Higher Education Coordinating Board pertaining to immunization requirements for students who reside or who have been approved to reside in campus house.

New Immunization Requirement for Students

Senate Bill 1107 (SB1107) was passed during the 2011 legislative session and signed into law. For incoming students to UT Pan American, this new law, effective January 1, 2012, requires that all first-time students under 30 years of age attending an institution of higher education in the state of Texas, including transfer students, show evidence of having received the Meningococcal Meningitis Vaccination no more than 5 years and no less than 10 days prior to the start of the semester. The law also allows for exemptions on medical grounds or reasons of conscience, including religious belief.

Students requesting a medical or conscientious exemption must return the Meningococcal Meningitis Vaccination Requirement Form along with one of the following documents:

A. Immunization waiver received from the Texas Department of State Health Services signed by the student stating that he/she declines to have the required vaccination based on reasons of conscience, which include religious beliefs. Please note this document must be notarized and can

take a minimum of two weeks to be delivered to the student; therefore, it is recommended that it be requested early enough to allow the student to complete and notarize prior to submission.

B. An affidavit or certificate signed by a physician licensed to practice medicine, stating that the physician is of the opinion that the required vaccination would be injurious to the student's health and well being. The affidavit or certificate should also provide the physician's name, address, the state where licensed and license number.

Students who fail to satisfy this requirement will not be able to attend the University. Failure to submit documentation of the required vaccination does not alleviate the student's responsibility under any contractual relationship with the University.

The Meningococcal Meningitis Vaccination Requirement Form and documentation can be mailed, faxed, emailed or hand delivered to the Office of the Registrar. The Immunization waiver received from the Texas Department of State Health Services must be mailed or hand delivered.

For questions about the vaccination requirement, please contact:

The University of Texas – Pan American
Office of the Registrar
Student Services Building, 1.150
1201 W. University Drive
The University of Texas-Pan American
Edinburg, TX 78539
(956) 665-2999

Empowerment Zone: Substance Abuse Services

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

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

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

The program offers individual counseling for students who are experiencing a substance abuse problem or who may be in recovery. Individual counseling is also available for related concerns, such as codependency or ACOA (Adult Children of Alcoholics) issues. All individual counseling is by

General Information

appointment. Substance Abuse Services also provides group counseling. The program offers a recovery group and a group for students dealing with loved ones who have a substance abuse problem. Groups are run once a week at designated times. The staff is available for referrals, consultations, group presentations and crisis intervention services.

Substance Abuse Services is located in the University Center, Room 320, telephone (956) 665-5375.

Student Publications

Students at UT Pan American are invited to contribute and work on the staff of student publications. Writing, editing, filming, 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, copyeditors, 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; phone (956) 665-2541, fax (956) 665-7122. Student-run television and radio programming are transmitted through the web-based Bronc Radio/TV. Both of these operations are located in the Communication TV/Radio Studios; phone (956) 665-7470 (Bronc Radio) and (956) 665-3583 (Bronc TV). All publications can be accessed from the Department of Communication's website at www.utpa.edu/communication.

Clubs and Organizations

A variety of clubs and organizations offer students friendship, relationships with people of similar interests, avenues for organized and meaningful service and opportunities for self-development. Because new organizations are formed each year, a complete list and assistance in starting up new organizations is available in the Office of Student Development, University Center, Room 205; phone (956) 665-2660 or visit the web at www.utpa.edu/osd.

Academic Organizations

Academic student organizations are designed to further develop academic and career interests in an informal setting. In these organizations, students may compete in local or national competitions in their academic area and attend conferences that allow them to network with professionals in their field. Academic student organizations are based on subject-matter specialties and each college has a variety of organizations to choose from that range from the American Sign Language Club to the Association of Clinical Laboratory Sciences.

Student Government Association

The Student Government Association (SGA) of The University of Texas Pan-American is dedicated to providing an outlet for the student body to express concerns, questions, and suggestions about the institution. SGA also assists with

the facilitation of the more than 30 campus committees that affect the lives of the student community.

University Program Board

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

Fraternity and Sorority Life

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

Honor Societies

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

Cultural Organizations

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

Faith/Spiritual Organizations

Faith and spiritual organizations provide a venue for students to affirm, unite, and explore spiritual beliefs and values. Many organizations host prayer, meditation, and praise and worship sessions. Several also engage in mission trips and community service.

Political Organizations

Political organizations include political and social action-based groups.

Special Interest Organizations

Special interest organizations are student organizations that reflect a wide range of interests and include groups that support artistic experience, hobbies and activities.

Recreational Organizations

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

Service Organizations

There are several different student service/advocacy specific organizations, each unique in its membership and service-area focus. Yet, what unifies all of the organizations is their commitment to engaging students in positive social change at UTPA and the surrounding community.

The Office of Residence Life: On-Campus Housing

The University experience is about trials and triumphs in the classroom as well as friendships made and new ideas explored throughout a student's college career. A college career can be very exciting, but also has its own special challenges.

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

NOTE: Residence Life opening and closing dates, and all fees for room and board rates are subject to change. Please verify all of this information with the Office of Residence Life at 956/665-3439. For reservation and other information on University residence halls and the Bronc Village Apartments, contact:

The University of Texas-Pan American
Office of Residence Life
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3439
Fax: (956) 665-5055
E-mail: home@utpa.edu
Web: <http://www.utpa.edu/reslife>

Residence Halls

Contract Policy

Housing at the UTPA residence halls is available for UTPA students, faculty, staff and participants of University-sponsored programs. Individuals seeking housing accommodations at the University must sign a Residence Life Housing Reservation Agreement on a academic year basis. Space in the University residence halls is reserved on a first-come, first-served basis. Residents cancelling their Reservation Agreement are subject to additional fees. Please see agreement for details and deadlines.

Housing Dining Services

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

Room Furnishings

Each residence hall is designed in suite-style configurations. Two adjacent rooms and a bathroom comprise one suite. Residents are responsible for providing their own bed linen, blankets, towels and toiletries. Room contents include:

- Two chests of drawers
- Two twin beds
- Two closets
- Two desks and chairs
- Window blinds
- Direct TV cable service
- Central air and heat
- Ethernet connections

Residence Hall Services

For the student's convenience, the UTPA Residence Halls provide the following in-house services:

- Study rooms
- Computer labs with network extension
- Laundry facilities
- Vending machines
- Recreation room (with pool table, foosball, ping pong, and cable television)
- Lounges
- Free resident parking

General Information

Safety and Security

Providing a safe living and learning environment for University residents is a priority for Residence Life. To that end, the staff coordinates various safety programs for residents throughout the year, highlighting topics such as securing personal belongings, personal safety on and off campus, and the use of University Police escorts. In addition, resident and desk assistants trained are available to assist residents when necessary. All students residing on campus are required to designate a person of confidential contact as part of our Missing Student Notification Policy. This person will be identified on the Residence Hall Reservation Agreement and can be changed by written request to the Office of Residence Life at anytime.

Bronc Village Apartments

Housing at Bronc Village is available for enrolled eligible UTPA students and current faculty and staff only. The only exception to this policy relates to children and spouses of current UTPA students, faculty, or staff. Individuals seeking housing accommodations at Bronc Village must sign a Residence Life Housing Reservation Agreement. Space in Bronc Village is reserved on a first-come, first-served basis.

In order to be eligible for residency at Bronc Village, students must meet eligibility requirements based upon age and credit hours earned. Appropriate documentation must be presented in the case of married or family housing if the spouse and/or children are not current UTPA students, or faculty or staff members.

Dining Services

All Bronc Village residents must purchase at least the minimum declining balance of \$300 Dining Dollars for each fall and spring semester. The meal credit can be used at the University Cafeteria, Student Union Food Court, and for food items at the Student Union Convenience Store.

Room Furnishings

Bronc Village rooms and living room areas are furnished for the convenience and comfort of the residents. Room contents (per resident) include:

- One twin bed
- One chest of drawers
- One built-in closet
- One desk and chair
- Individual network connections
- Sofa
- Chair
- Multi-use cube
- End table
- Dishwasher
- Conventional microwave
- Stove/oven
- Full-size refrigerator
- Washer/dryer units

Bronc Village Services

- Mail delivery
- Garbage collection
- Free resident parking

New Immunization Requirement for Students

Senate Bill 1107 (SB1107) was passed during the 2011 legislative session and signed into law. For incoming students to UT Pan American, this new law, effective January 1, 2012, requires that all first-time students under 30 years of age attending an institution of higher education in the state of Texas, including transfer students, show evidence of having received the Meningococcal Meningitis Vaccination no more than 5 years and no less than 10 days prior to the start of the semester. The law also allows for exemptions on medical grounds or reasons of conscience, including religious belief.

Students requesting a medical or conscientious exemption must return the Meningococcal Meningitis Vaccination Requirement Form along with one of the following documents:

1. Immunization waiver received from the Texas Department of State Health Services signed by the student stating that he/she declines to have the required vaccination based on reasons of conscience, which include religious beliefs. Please note this document must be notarized and can take a minimum of two weeks to be delivered to the student; therefore, it is recommended that it be requested early enough to allow the student to complete and notarize prior to submission.
2. An affidavit or certificate signed by a physician licensed to practice medicine, stating that the physician is of the opinion that the required vaccination would be injurious to the student's health and well being. The affidavit or certificate should also provide the physician's name, address, the state where licensed and license number.

Students who fail to satisfy this requirement will not be able to attend the University. Failure to submit documentation of the required vaccination does not alleviate the student's responsibility under any contractual relationship with the University.

The Meningococcal Meningitis Vaccination Requirement Form and documentation can be mailed, faxed, emailed or hand delivered to the Office of the Registrar. The Immunization waiver received from the Texas Department of State Health Services must be mailed or hand delivered.

For questions about the vaccination requirement, please contact:

The University of Texas – Pan American
Office of the Registrar
Student Services Building, 1.150
1201 W. University Drive
The University of Texas-Pan American
Edinburg, TX 78539
(956) 665-2999

How to Apply

To reserve a room or apartment complete a Residence Hall Reservation Agreement and return it with a deposit to:

The University of Texas-Pan American
Office of Residence Life
1201 W. University Drive
Edinburg, TX 78539-2999
Web: www.utpa.edu/reslife

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

University Outreach Programs

Academic Centers

Unless otherwise noted, all centers are located on the UTPA campus, 1201 W. University Drive, Edinburg, Texas 78539-2999.

Border Health Office

The mission of the Border Health Office is to foster collaborative health education, health services and health research leading to improved health for Texans living along the Texas-Mexico border. It was created in 1990 in response to recommendations from a task force of representatives from health-related UT System institutions and other University, state and federal agencies that continue to guide the office's activities. The Border Health Office has collaborated with community-based agencies to promote health services and education, providing technical assistance to communities and institutions, sponsoring health education efforts, including conferences and workshops, and most recently establishing a Diabetes Registry.

UTPA Annex, 2412 S. Closner, Edinburg, TX 78539-2999
Phone: (956) 665-3687
E-mail: tmbhco@utpa.edu
Web: www.utpa.edu/bho

Center for Bilingual Studies

The Center for Bilingual Studies is an inter-college commitment by the Colleges of Education, Social and Behavioral Sciences, and Arts and Humanities and the University Library that works collaboratively for the purpose of addressing the critical issues of bilingual education as it

impacts children, schools, families, and communities of the Rio Grande Valley and the surrounding region.

College of Education, Dean's Office, EDUC 3102
Phone: (956) 665-2530

Center for Border Economic Studies

The Center for Border Economic Studies is a public policy research unit dedicated to the study of problems unique to the U.S.-Mexico border. Its research efforts are directed at publishing working papers and technical reports that encompass a wide array of economic and socioeconomic issues. CBEST-affiliated scholars conduct policy-oriented research in four key areas of importance to the border region: (1) regional economic development and trade; (2) labor market and immigration; (3) health and environmental policy; and (4) information technology. The center also publishes a quarterly newsletter, border business briefs, of economic indicators in the Lower Rio Grande Valley as well as an annual forecast of these indicators.

College of Business Administration, Rm. BUSA 218E
Phone: (956) 665-7317
E-mail: cbest@utpa.edu
Web: www.utpa.edu/cbest

Center for Research in Nanotechnology and Materials Sciences

The vision of the Center for Research in Nanotechnology and Materials Sciences is to create an integrated multidisciplinary environment (science and engineering) for research, education and outreach at UTPA. The Center pools the talent and expertise from various disciplines within the science and engineering departments into a coherent materials science center and focuses on developing a predictive level of understanding on the development of polymeric and nanoparticle based material and devices. It strives to enhance current activities to encourage and motivate students to pursue graduate school while pursuing state of the art research and to promote faculty research careers to attract external funding to UTPA.

College of Science and Engineering, ENGR 3252
Phone: (956) 665-7020
E-mail: lozanok@utpa.edu



Coastal Studies Laboratory

The Coastal Studies Laboratory (CSL), established as a marine biology laboratory in 1973 in Isla Blanca Park on South Padre Island, was reorganized and expanded in 1985 with a concentration on University education, public education and coastal research. The CSL's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island. The CSL also supports classes and field trips from the University and other schools; many universities in Texas and surrounding states use the CSL facilities for field trips each year. A number of marine-oriented courses are offered at the Lab.

100 Marine Lab Drive, South Padre Island, Texas 78597

Phone: (956) 761-2644

E-mail: coastal@utpa.edu

Web: www.utpa.edu/dept/csl/csl.html

English Language Institute

The English Language Institute provides English language instruction to students, professionals and other individuals whose first language is not English; enhances ESL students' ability to participate successfully in an American cultural environment; and academically prepares students to pursue a degree at an American university. The English Language Institute has offered non-credit intensive and semi-intensive instructional English programs to nonnative speakers from the community and abroad since 1972.

Lamar Building, Rm. 1

Phone: (956) 665-2133

E-mail: eli@utpa.edu

Web: <http://www.utpa.edu/eli>

Institute for Population Health Policy

The Institute for Population Health Policy (IPHP) coordinates health policy research initiatives and provides resources for policy-oriented research to faculty and students at UTPA. The IPHP facilitates population health policy research on campus and disseminates research activities to both academic and health policy circles. The long-term goal of the Institute's research program is to improve health status and reduce health disparities. The Institute thrives to become a national leader in population health, health economics and health services research. The IPHP has collaborative partnerships with several universities with an international reputation in health care and health policy research.

International Trade and Technology Bldg., Rm. 1.404N

Phone: (956) 665-5306

Web: www.utpa.edu/iphp

International Journal of Mathematics and Mathematical Sciences

The main editorial office of the International Journal of Mathematics and Mathematical Sciences (IJMMS) is located in the Department of Mathematics at The University of Texas-Pan American. This is a refereed weekly journal devoted to publication of original research papers, research notes, and research expository and survey articles, with emphasis on unsolved problems and open questions in mathematics and mathematical sciences. All areas listed on the cover of mathematical reviews — such as Pure and Applied Mathematics, Mathematical Physics, Theoretical Mechanics, Probability and Mathematical Statistics and Mathematical Biology — are included within the scope of the journal. Dr. Lokenath Debnath, professor and chair of the Department of Mathematics, is the founding managing editor of IJMMS. The international journal will always carry out research, knowledge, and information, but also the name and therefore, the prestige of The University of Texas-Pan American. Department of Mathematics
Phone: (956) 665-3452
Web: www.math.utpa.edu/ijmms.html

Raúl Yzaguirre Policy Institute

The Raúl Yzaguirre Policy Institute (RYPI) is the first national Latino leadership and policy institute along the U.S.-Mexico border. The mission of RYPI is to create a world-class center for scholarship research in areas affecting and impacting Hispanics and to serve as a catalyst in the constructive formation of tomorrow's Hispanic leaders. The main goals of the institute include (1) training Latino leaders at all levels and exposing all leaders to Latino issues and (2) researching regional, national and international issues that impact or are impacted by Latinos. The policy research program collects and disseminates information pertaining to the social, political and economic forces affecting Hispanics in America. Researchers analyze the effects of government actions relating to public policy including their causes and consequences.

Office of Graduate Studies, Rm. AB 116

Phone: (956) 665-3661

Web: www.utpa.edu/yzaguirre

South Texas Border Health Disparities Center

The South Texas Border Health Disparities Center at The University of Texas-Pan American is dedicated to the advancement of knowledge on health disparities by enhancing the institutional capacity to conduct health disparities research addressing issues particular to the largely Hispanic population along the U.S.-Mexico border. The center was established in September 2008 by a grant from U.S. Department of Health and Human Services.

International Trade & Technology Bldg., Rm. 1.404N

Phone: (956) 665-7937

Web: www.utpa.edu/health

Speech and Hearing Center

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

Health Sciences and Human Services Bldg. West, Rm. 1.112
Phone: (956) 665-3587

Statistical Consulting Center

The Statistical Consulting Center is an educational and service center within the Department of Mathematics at UTPA that provides training to students, assists individuals in practical use of statistics, participates in research projects by providing high quality statistical advice and collaborates with researchers in interdisciplinary research activities. The center provides statistical consulting advice on design of experiments, data management, statistical modeling, and statistical analysis of experiments and studies. Its customers include students, faculty and research groups from UTPA, and researchers from academic and non-academic organizations in the Rio Grande Valley.

Department of Mathematics

Phone: (956) 665-3452

Web: <http://www.math.utpa.edu/xhwang/scc.html>

Texas Manufacturing Assistance Center

The Texas Manufacturing Assistance Center (TMAC) exists to enhance the competitive position of the state's manufacturing sector. TMAC's manufacturing professionals work with a wide range of industrial firms delivering training, providing technical assistance, and implementing best business practices. A particular emphasis is placed on the needs of small to mid-sized manufacturers. Focus areas include lean manufacturing and lean office principles, strategic management, quality systems, environment and safety. TMAC is an affiliate of the Manufacturing Extension Partnership (MEP) program of National Institute of Standards and Technology (NIST), which provides Federal funding. TMAC consists of seven partner institutions delivering services statewide.

Academic Support Facility, Rm. 1.301

Phone: (956) 665-7011

E-mail: tmac@utpa.edu

Web: www.utpa.edu/tmac

UTPA Press

Established in 1983 as an extension of the teaching mission of Pan American University, the Press serves both the academic community and the community at large. Through publication of research and materials of particular interest to the Southwestern region, bilingual and bicultural studies, and Latin American business, economic, and cultural topics, the Press emphasizes research unique to the university's geographic, demographic, and cultural heritage. In addition to publishing full-length manuscripts, the Press serves as publisher/distributor to monographs, collections, and other materials chosen and edited with the various divisions of the University.

Lamar Bldg., Rm. 9A

Phone (956) 665-3638

E-mail: bookworm@utpa.edu

Web: <http://utpress.utpa.edu>

Valley Markets and Tourism Research Center

The Valley Markets and Tourism Research Center in the College of Business Administration addresses social, cultural, environmental and economic issues related to the tourism industry locally, regionally and nationally. Tourism studies targeted by the center include senior travelers or "Winter Texans," Mexican national visitors to the United States, spring breakers at South Padre Island, ecotourism, historic tourism, recreational tourism and local residents' attitudes and reactions toward tourism. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center.

College of Business Administration, Rm. 124A

Phone (956) 665-2829

Web: <http://coba.utpa.edu/tourism>



Community Engagement

The mission of the Department of Community Engagement is to enhance UTPA's engagement with the community to meet challenges and maximize opportunities in South Texas. Community Engagement is located at the International Trade and Technology Building and the UTPA Administrative Annex Building, and consists of three areas: 1) Community and Economic Development, 2) Business Development and Innovation, and 3) Rural Enterprise Development. Each area, listed below with contact information, includes a number of centers, projects, and initiatives.

- Community and Economic Development is located at the International Trade and Technology Building, 1201 W. University, Edinburg, and can be reached by calling (956) 665-3361, or visiting the respective websites.
- Business Development and Innovation is located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached by calling (956) 665-7535 or 665-7555, or visiting the respective websites.
- Rural Enterprise Development is located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached by calling (956) 665-7555 or 665-7535, or visiting the respective websites.
- Community and Economic Development (CED) www.coserve.org
- Data and Information System Center (DISC): Serves the southernmost 19 counties of Texas by providing research, data, geographic information systems, economic impact analysis, and mapping services to the community. <http://www.coserve.org/disc/>
- Southwest Border Nonprofit Resource Center (SBNRC): Builds capacity for sustainable, long-term development of nonprofit organizations through technical skills training, funding-sources research, and philanthropic-organizations networks. <http://ce.utpa.edu/sbnrc>
- Strengthening Together Initiative (STI): A HHS funded project that builds the capacity of nonprofit organizations in Hidalgo and Starr counties through training, technical assistance, and grants to local nonprofits. <http://ce.utpa.edu/sti/>
- Mobile Community Development Initiative (MCDI): Extends Community Engagement resources into South Texas communities through the use of a technologically advanced mobile unit to provide job readiness, financial literacy, housing, microenterprise,

and nutrition/health training.

- Hispanic Engineering Science and Technology (HESTEC) Program: Promotes science, technology, engineering, and math careers and education to South Texas students, teachers, and the community. HESTEC culminates in annual weeklong event that promotes STEM literacy. <http://hestec.utpa.edu/>
- Festival of International Books and Arts (FESTIBA): An annual university Community Engagement event that celebrates the arts and humanities, encourages literacy, and broadens cultural awareness. <http://coah.utpa.edu/festiba/>
- Business Development and Innovation (BDI) www.utpa.edu/bdigroup
- Small Business Development Center (SBDC): Provides managerial and technical assistance to small business owners and entrepreneurs through free, confidential, one-on-one business counseling, training, research, and business planning assistance. www.utpa.edu/sbdc
- Project ASSIST: Assists small businesses along the Texas-Mexico border that are negatively impacted by NAFTA, with an emphasis on job creation and retention in South Texas. www.utpa.edu/bdigroup
- Rio South Texas Regional Procurement Technical Assistance Center (PTAC): Provides procurement counseling, planning assistance, and training to business owners in a nine-county South Texas region to assist them in obtaining federal, state, local, and private contracts. www.utpa.edu/ptac
- Veterans Business Outreach Center (VBOC): Assists in the creation, retention, and development of veteran-owned businesses across Texas and four surrounding states through online and on-site counseling and training seminars. www.utpa.edu/vboc
- Rural Enterprise Development (RED) www.utpa.edu/red
- Texas Rural Cooperative Center (TRCC): Provides training and technical assistance to rural cooperatives, cooperative members, and member businesses in Texas with an emphasis on rural cooperative development in the South Texas region. www.utpa.edu/trcc
- Farm Ownership and Rural Growers Empowerment Project (Project FORGE): Provides outreach, training, and technical assistance to Hispanic producers of traditional crops in a 56-county border-region area in Texas and New Mexico. www.utpa.edu/forge
- Initiative for Child Nutrition through Agriculture (ICNA): Establishes nutrition gardens at public schools

in South Texas and incorporates garden production into school lunch programs. www.utpa.edu/icna

- **Begin Farmer Rancher Development (BFRD):** Provides training and assistance to beginning farmers and ranchers that are interested in directly marketing their agricultural produce to consumers through farmers markets, CSAs, and other direct-marketing techniques. www.utpa.edu/bfrd
- **South-Central Initiative for Outreach and Assistance to Socially-Disadvantaged Farmers and Ranchers (OASDFR):** Assists Hispanic and Black/African American farmers and ranchers through outreach, training, and technical assistance that emphasize participation in USDA programs. www.utpa.edu/scioasdr
- **South Texas Regional Rural Economic-Development Strategy (STRREDS):** Develops a comprehensive, regional rural-development strategy for the four-county Rio Grande Valley of South Texas. www.utpa.edu/strreds

Cultural Activities

Art Department Exhibits

The Charles and Dorothy Clark Gallery, located in the Fine Arts Complex, and the University Gallery, located in the Communication Arts and Sciences Building (COAS), feature art exhibitions that are free and open to the public throughout the year. The art galleries are administered through the Department of Art. The office for the University Art Galleries is adjacent to the Clark Gallery in the Fine Arts Complex. The gallery director may be reached at (956) 665-2655 or by e-mail at galleries@utpa.edu.

Arts at the Union

The Student Union sponsors the Arts at the Union Series as a means to bring more cultural, musical and theatrical entertainment to UTPA students and to offer them the opportunity to meet with and interact with the artists. Past programs have included performances by classical guitar artists and music ensembles such as the Core Ensemble and Recycled Percussion. In addition, there have been sketch comedy performances by The Capitol Steps, Second City and Upright Citizens Brigade.

Distinguished Speakers Series

The Distinguished Speakers Series hosts speakers of the highest caliber representing a variety of worldviews and backgrounds. The Series is underwritten by student fees as recommended by the Student Affairs Advisory Committee. The Speaker Series also receives support from the UTPA Office of the President and the Student Union. All events are

free and open to UTPA students, staff and faculty.

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) 665-2315.

UT Pan American Folkloric Dance Company: The UT Pan American Folkloric Dance Company, organized in 1970, has as its purpose the preservation and performance of the dance art of Mexico and Spain. During the performing season, the company presents numerous concerts for school children, the general public and private affairs throughout the University, community and state. Membership in the company is available through class audition. Health and Physical Education Building I, Room 110F; telephone (956) 665-2230.

Faculty Artist Series

During the school year, the Department of Music presents a series of performances by faculty members in addition to student recitals. Included in these recitals are vocal and instrumental performances. Fine Arts Complex, Room 132; telephone (956) 665-3471.

Musical Performances

Performing for students and the public are the University Choir, Men's and Women's Choruses, the Concert Band, the Jazz Ensemble, the Salsa Band, the Brass Ensemble, the Woodwind Ensemble, the Trombone Ensemble, the Guitar Ensemble, the South Texas Chamber Orchestra, the UTPA Mariachi and the Valley Symphony Orchestra and Chorale. Call (956) 665-3471 for more information.

Albert L. Jeffers Theatre

The Albert L. Jeffers Theatre produces seven to 10 full-length plays each year, including three to four plays in the summer during Pan American Summer Stock (PASS) and four to five plays in the fall and spring. The community can purchase individual tickets to each performance. Season subscriptions are also available.

University ID cardholders are permitted two free admissions per ID and as space permits. Actors include University students, faculty and staff, along with community members. The Albert L. Jeffers Theatre seeks to present, within a four-year cycle, quality productions featuring examples from every major genre of dramatic literature. Performances for children and children's theater classes are frequently offered. Funding for the Albert L. Jeffers Theatre is provided by student activity fees, donations, grants, and other sources. Communication Arts and Sciences Building (COAS), Box Office first floor; telephone (956) 665-3581.

Public Use of Facilities

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

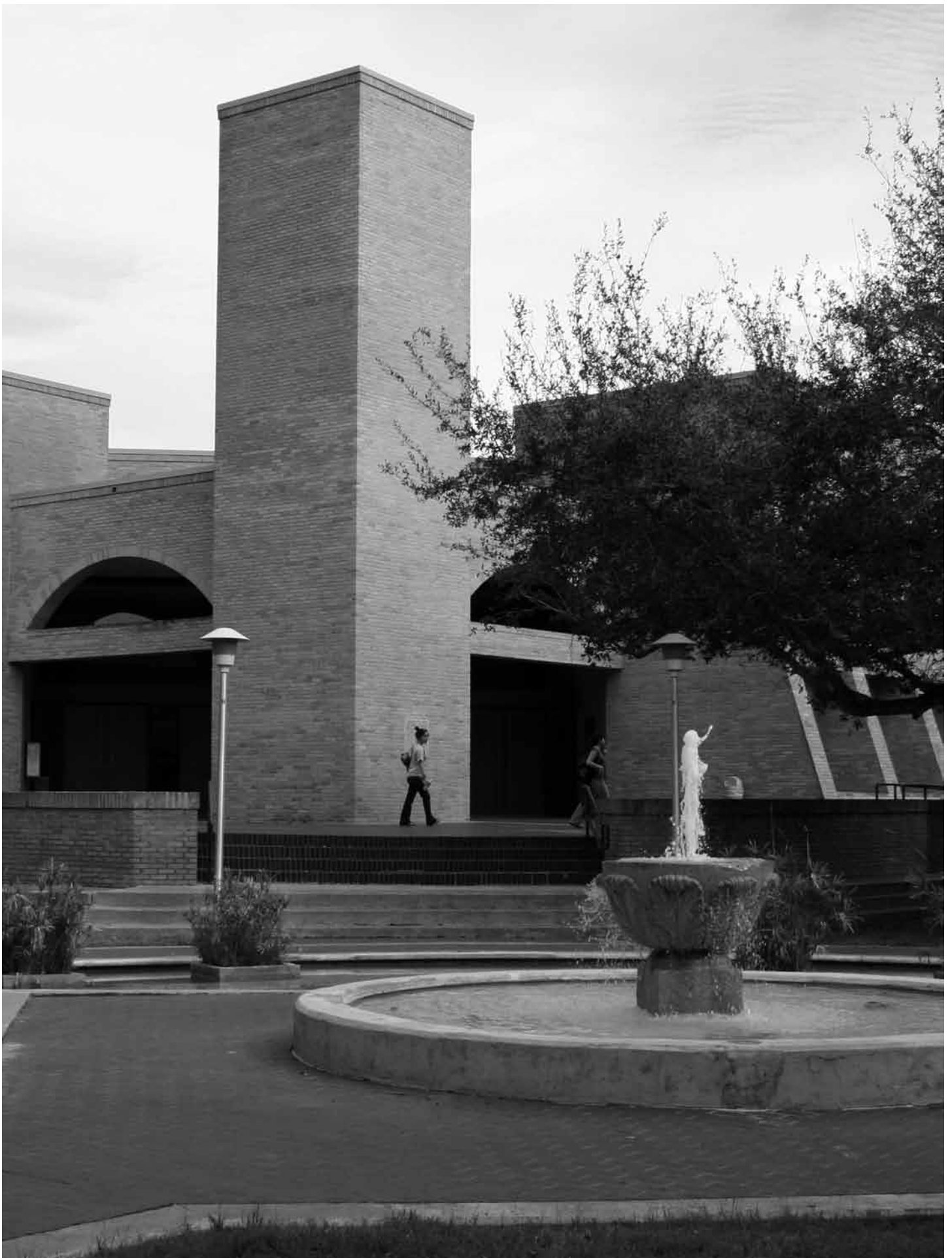
No person, organization, group, association or corporation may use property, buildings or facilities owned or controlled by UT Pan American for any purpose other than in the

course of the regular programs or activities related to the role and mission of the University, unless authorized by the Regents Rules and Regulations. Any authorized use must be conducted in compliance with the provisions of the Regents Rules and Regulations, the University's Handbook of Operating Procedures, and applicable federal, state and local laws and regulations.

Anyone from outside the University who is seeking information about scheduling and use of University Special Use Facilities should contact the Office of the Director of Auxiliary Services at (956) 665-2224.

For more information, consult the Regents Rules and Regulations Rule 80101 and the University's Handbook of Operating Procedures including policy 8.4.1. The Handbook of Operating Procedures is available online at <http://www.utpa.edu/hop/>.





COLLEGE OF ARTS AND HUMANITIES

General Overview

The College of Arts and Humanities includes the Departments of Art, Communication, English, History and Philosophy, Modern Languages and Literature, and Music.

Academic Programs

The College of Arts and Humanities offers the Master of Fine Arts in art and in creative writing as well as the Master of Arts in English, English as a Second Language, history, Spanish, communication and theatre. Also available is the Master of Arts in interdisciplinary studies with concentrations in English, history, music, and Spanish.

In addition, the college provides several key graduate courses for students in graduate programs in other colleges.

The college also offers the Bachelor of Arts in art, English, history, Latin American studies, journalism, Mexican-American studies, music, philosophy, Spanish, communication, and theatre. Students also may earn a Bachelor of Fine Arts in art and may choose a further specialization in graphic design. Students may minor in art, communication, English, French, history, journalism, Mexican-American studies, music, philosophy and Spanish.

Secondary teacher certification is available in art, English, French, history, journalism, music, Spanish, communication and theatre arts. Elementary teacher specialization or certification is available in art, history, music, social studies and Spanish, and all-level teacher certification is available in music.

Dr. Dahlia Guerra, Dean

Communication Arts and Sciences Building,

Room 334
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: 956/665-2175
Fax: 956
Phone: (956) 665-2177
E-mail: guerrad@utpa.edu
Web: <http://www.coah.utpa.edu>

ART

Fine Arts Building B, Room 135 B
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3480
Fax: (956) 665-5072

Donna Sweigart

Graduate Director

Fine Arts Annex, Room 105A
Telephone: (956) 665-3480
E-mail: dsweigart@utpa.edu

Graduate Faculty

Bradley, Robert, Assistant Professor
De Souza, Carlos, Assistant Professor
Farris, M.C., Assistant Professor
Field, Philip, Professor
Fitzsimmons, Susan, Department Chair
Gilbert, Robert, Assistant Professor
Hernandez, Leila, Associate Professor
Hyslin, Richard, Professor
Lyles, Donald, Assistant Professor, Assistant Professor
Martinez, David, Associate Professor
Pace, Lorenzo, Professor
Phillips, Richard, Associate Professor
Sanders, Karen, Associate Professor
Santiago, Reynaldo, Associate Professor
Sweigart, Donna, Assistant Professor

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 Master of Fine Arts in art 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, painting, printmaking, photography, design, sculpture, ceramics, jewelry, performance or mixed media.

Admission to the Master of Fine Arts Program

In order to be admitted to the Master of Fine Arts Program, the student must first meet all requirements for graduate admission to UT Pan American (see PAGE 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Probationary admission may be considered on a case by case basis.

All students applying for admission to the MFA in art with a concentration in studio art are required to provide the graduate director with the following:

1. Applicable catalog(s) for evaluation of transcript(s) if not from UTPA.

Specific Admission Requirements

1. The applicant must have a Bachelor of Fine Arts degree or comparable degree (e.g., BA with at least 60 hours of art) from a college or university accredited by the regional accrediting association for the region in which the institution is located, and a minimum GPA of 3.0 in his or her undergraduate art studies.
2. The applicant must submit a portfolio of 15-20 digital images of recent works in the major area of concentration to the program director.

Applicants must attach or request the following through their online application or submit materials to the graduate director:

1. At least three letters of recommendation must be submitted by individuals who are qualified to judge the applicant's artistic and professional potential. The applicant will add the recommenders to the recommendation section of the online application and they will be instructed on how to submit their recommendation online. Recommenders may also submit letters directly to the MFA Program.
2. The applicant must submit a statement of purpose describing his or her artistic direction and subsequent professional goals.

Applicants will be considered for the specific studio concentration for which they apply. Up to six hours of graduate work may be transferred from other accredited

institutions, provided such courses are acceptable by the department and have been taken within the required time period, seven years to graduation.

Graduate Assistants

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

MFA Degree Requirements

The MFA in art with a concentration in studio art requires the completion of a total of 60 semester hours of coursework that includes 33 hours of studio courses. Twenty-four hours must be taken in the student's area of concentration and nine hours will be taken in a minor studio area. The student must take 12 hours of graduate art history, seminar courses and a three-hour seminar, ART 6383 The Art Profession. The final semester includes ART 7300 Graduate Exhibition and ART 7301 Graduate Paper. Six hours of free electives, which must be approved by the graduate coordinator, are allowed.

Students in the MFA Studio Art 2D concentration studying in the area of design must substitute all course credits in the following classes: ART 6301 Studio Experience 2D, ART 6383 The Art Profession, ART 6605 Graduate Studio 2D, with the following courses, ART 6337 Design Seminar, ART 6338 Design Lab, ART 6639 Design Studio.

All students must be reviewed by their graduate committee at the completion of 24 semester hours. The review focuses on their studio work and will determine their eligibility for the status of candidacy for the MFA.

Graduate Catalog

Students who received a previous master's degree from UT Pan American or other accredited institution may earn an MFA from UTPA. Such students must:

1. Complete an additional minimum of 30 hours of credit of UT Pan American courses.
2. Complete all requirements for the MFA degree as set forth in the catalog.
3. Complete a thesis for the MFA exhibition. The thesis will serve in place of the paper, which is required for the degree.
4. Adhere to the admission standards for graduate study.

Course Descriptions

A listing of graduate courses offered by the Department of Art can be found on PAGE 192.

COMMUNICATION

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Chang, Yanrong, Associate Professor
Grabowski, Thomas, Associate Professor
Guerra, Petra, Assistant Professor
Lemanski, Jennifer, Assistant Professor
McQuillen, Jeffrey S., Associate Professor
Monta, Marian F., Professor Emeritus
Saavedra, Dora, Associate Professor
Selber, Gregory, Assistant Professor
Selber, Kimberly, Assistant Professor
Stanley, Jack, Professor
Wiley, Eric, Associate Professor

Master of Arts in Communication

Purpose

This program is designed for those who are interested in pursuing advanced studies in communication as a means of enhancing their professional and academic careers. Specifically, the objectives of this master's degree are to:

1. Provide advanced instruction for professional-level communication career development.
2. Provide instruction for teachers and educational administrators to upgrade their pedagogical and

administrative skills.

3. Prepare students for advanced graduate study in communication leading to the terminal Doctor of Philosophy degree.

Scope

The Master of Arts degree in Communication is a broad-based and individualized degree program that addresses all of the essential dimensions and components of communication studies including organizational, interpersonal, intercultural, journalism, public relations, mass media, and communication theory. The student will acquire grounding in communication research, both theoretical and applied. Substantial flexibility exists for the student in communication to design a course and research program that fits his or her unique and specialized professional and educational goals.

Admission to the Master of Arts in Communication

In order to be admitted to the Master of Arts in Communication, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see PAGE 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to the Master of Arts in Communication are required to attach or request the following through their online application:

1. Three letters of recommendation. The applicant will add the recommenders to the recommendation section of the online application and they will be instructed on how to submit their recommendation online.
2. A writing sample.

Specific Admission Requirements

In addition to existing University requirements, the entering student must hold a bachelor's degree or its equivalent from a college or university accredited by the regional accrediting association for the region in which the institution is located. In addition, the entering student must have a 2.5 GPA in upper-division work, 3.0 GPA in upper-division work in communication courses, and 3.0 in prior graduate work (if applicable). The bachelor's degree or equivalent must be in communication or a communication-related discipline or the student must have 24 hours of undergraduate coursework in communication including 18 hours of upper-division coursework.

All individuals desiring admittance to the graduate program in communication should follow the admission procedures for entering the graduate program in communication outlined in the Graduate Student Handbook,

and abide by stated deadlines. A Graduate Student Packet is available at www.utpa.edu/comm or request a copy from:

Communication Graduate Adviser
The University of Texas-Pan American
Communication Department
1201 W. University Drive
Edinburg, TX 78539-2999
Phone: (956) 665-3583
Fax: (956) 665-2685

Degree Requirements

Core Requirements 12 hours

COMM 6300	Communication Research
COMM 6320	Communication Theory
COMM 6322	Culture and Communication
COMM 6328	Applied Research

Designated Electives 12 hours

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

Free Electives 6 hours

Students will take course electives in the fields of communication, psychology, history, political science, English, sociology and business.

Other Requirements 6 hours

Thesis	6 hours
or	
Free or Designated Electives	6 hours

TOTAL 36 hours

Comprehensive Written Examination

Non-thesis candidates for the Master of Arts in Communication will be required to pass a comprehensive written and oral examination encompassing the information and materials in communication and related coursework.

Graduate Certificate in Communication Training and Consulting

The Certificate in Communication Training and Consulting is a nine-hour sequence of courses designed to provide the essential content and methods for professionals who need competencies in communication, training, human resource development, and organizational development. This certificate is ideal for the graduate student who wants to learn:

- How communication functions in organizations.
- How to develop, deliver, and assess communication training and developmental programs.
- How communication theories help explain and predict communication effectiveness in organizations.
- How to enhance communication skills and competencies in

a organization.

This program may be completed as a cognate area of study for master's or doctoral students in a variety of areas including business, education, health professions, or other related degree programs. Students who complete the Certificate in Communication Training and Consulting may seek permission to apply the credit earned toward an MA degree in communication.

Admission requirements for the certificate program are identical to the requirements for being admitted to the UT Pan American Graduate School.

Curriculum

Core Requirements 6 hours

COMM 6330	Seminar in Training and Consulting
COMM 6324	Seminar in Organizational Communication

Electives 3 hours

COMM 6321	Seminar in Instructional Communication
COMM 6323	Seminar in Interpersonal Communication
COMM 6326	Seminar in Non-Verbal Communication
COMM 6329	Special Topics in Communication Communication Assessment Conflict Management Intercultural Communication

Graduate Certificate in Media Relations and Strategic Communication

The Certificate in Media Relations and Strategic Communication is a nine-hour sequence of courses designed to provide the essential content and methods for professionals who need competencies in managing crisis communication, creating public events, mobilizing public opinions, communicating with elected and government officials, and developing workshops to help their clients attain goals. This certificate is ideal for the graduate student who wants to:

- Develop, critique, and deliver effective media campaigns.
- Use targeted messages to accomplish strategic influence.
- Understand and appreciate the role media play in a variety of social, health, organizational, educational, and political settings. Apply communication theories to enhance the effectiveness of media campaigns.

This program may be completed as a cognate area of study for master's or doctoral students in a variety of areas including advertising, public relations, marketing, education, and health professions, or other related degree programs. Students who complete the Certificate in Media Relations and Strategic Communication may seek permission to apply

the credit earned toward an MA degree in communication.

Admission requirements for the certificate program are identical to the requirements for being admitted to the UT Pan American Graduate School.

Curriculum

Core Requirements 6 hours

COMM 6332	Mass Media Campaigns
COMM 6356	Seminar in Persuasion

Electives 3 hours

COMM 6351	Communication Technology
COMM 6352	Mass Communications and Hispanics
COMM 6360	Historical Studies in Mass Media
COMM 6329	Special Topics in Communication Advertising Strategies in Education Marketing Health Communication Political Communication Crisis Communication

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 prepare students for advanced graduate studies leading to the Doctor of Philosophy degree.

Scope

The Master of Arts in Theatre is a broad-based program designed to provide the student with exposure to the most up-to-date knowledge available in areas of theatre studies – literature, history, performance theory and criticism. The program concentrates primarily on theory and secondarily on performance.

Admission to the Master of Arts in Theatre

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

Graduate School of UT Pan American (see PAGE 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Applicants must 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 GPA in upper-division work, have a 2.75 GPA in upper-division work in theatre courses and have a 3.0 in graduate courses (if applicable). No special or specific requirements will be necessary for the program, although some degree candidates may have to level (take undergraduate courses to prepare for graduate courses in the areas in which the student's undergraduate training is inadequate).

Degree Requirements

Students may select 36 hours from among the following, of which the three hours indicated are required. Only six hours of 5000-level courses will be applied to the degree.

Required Courses 3 hours

COMM 6345	Theatre Research
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Designated Electives 21 hours

COMM 5304	Scriptwriting**
COMM 5615	Summer Theatre Workshop
COMM 5616	Summer Film and Television Workshop (TH)
COMM 6340	Special Topics in Dramatic Literature*
COMM 6341	Special Topics in Theatre History*
COMM 6342	Master Class in Theatrical Performance or Production*
COMM 6343	Performance Theory*
COMM 6357	Screenwriting Workshop*
COMM 6358	Playwriting Workshop
COMM 6368	Form and Theory of Playwriting*

*May be repeated for credit as topics vary.

**With permission of graduate coordinator

Free Electives 6 hours

Select six hours of work outside the field to meet individual needs and interests with the approval of the graduate adviser.

Other Requirements 6 hours

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

TOTAL	36 hours
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Comprehensive Examinations

All candidates for the Master of Arts in Theatre will be required to pass comprehensive written and oral examinations encompassing the information and materials in theatre and related coursework on the completion of at least 30 hours, but prior to completion of 36 hours, of graduate work toward a degree.

Supporting Fields

Some existing programs and support areas at UT Pan American that would complement this program are as follows:

1. Graduate courses in English literature, especially those relating to dramatic literature.
2. Graduate courses in communication.
3. Graduate courses in art or music, if they are courses relevant to the theatre student.

These courses could be used to complete the requirement that six hours of the master's program in theatre be taken outside the student's major area of study. For teachers seeking certification, the six hours could be taken in their second teaching field. Theatre teachers most frequently have English or communication as the second teaching field. The six-hour outside requirement would be met in an area that both the student and the adviser agree would be valid and useful for the student.

Course Descriptions

A listing of graduate courses offered by the Department of Communication can be found beginning on PAGE 202.



ENGLISH

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Graduate Faculty

Anderson-Mejias, Pamela, Professor
Anshen, David, Associate Professor
Belau, Linda, Professor
Braithwaite, Jean, Assistant Professor
Brown, Danika, Associate Professor
Broz, William, Assistant Professor
Cameron, Ed, Associate Professor
Charlton, Colin, Associate Professor
Charlton, Jonikka, Associate Professor
Christensen, Matt, Associate Professor
Cole, Deborah, Assistant Professor
Cummins, Amy, Assistant Professor
Daniel, Clay L., Associate Professor
Haule, James M., Professor
Johnson, Robert, Professor
Keller, Christopher, Associate Professor
Lang, Yong, Professor
LaPrade, Douglas E., Professor
McCracken, I. Moriah, Assistant Professor
McDonie, R. Jacob, Assistant Professor
McMahon, Marci, Assistant Professor
Meadows, Bryan, Assistant Professor
Miles, Caroline S., Associate Professor
Mitchell, Rebecca, Assistant Professor
Newman, Beatrice, Professor
Newman, Donald, Professor
Noe, Mark, Associate Professor
Nuss, Melynda, Associate Professor
Pérez, Emmy, Assistant Professor
Reed, Michael D., Professor
Schneider, Gary, Associate Professor
Schneider, Steven P., Professor
Skinner, José, Associate Professor
Thomson, Shawn, Assistant Professor
Williamson, Eric, Professor
Zwerling, Phil, Assistant Professor

The Department of English Graduate Program

The Department of English offers courses leading to a Master of Arts (MA) in English, a Master of Arts in English as a Second Language (MAESL), a Master of Arts in Interdisciplinary Studies (MAIS) and a Master of Fine Arts (MFA).

A person with a master's in another discipline who wishes to acquire an MA in English or an MAESL must present at least 36 semester hours of graduate work applicable to the second master's degree and must meet all specific requirements for it. Within these 36 semester hours, a student may include a maximum of six hours that were applied to the first master's (whether it was received from UT Pan American or elsewhere). The 36 semester hours (including any work counted on a previous master's) must include at least 27 hours of English, 24 hours at this institution, and must be within the seven-year period.

Admission to Graduate Programs in English

In order to be admitted to the MA in English, MAESL, or to the MFA in Creative Writing programs, students must first meet all requirements for admission to the Graduate School of UT Pan American (see PAGE 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

All students applying for admission to either the MA in English or the MA in English as a Second Language program are required to attach or request the following through their online application:

TOEFL scores (for foreign students) and official transcripts, a letter explaining career goals and reasons for seeking graduate studies in English or English as a Second Language.

In addition, all students applying for admission to either program are required to provide the graduate adviser in the Department of English with the following:

Applicable catalog(s) for evaluation of transcript(s), if not from UTPA (The department needs transcripts translated officially from all international institutions that do not use English).

All students applying for admission to the MFA program must additionally apply separately to the English department, providing a writing sample, letters of recommendation, a letter of application, and unofficial copies of transcripts. Detailed instructions and all necessary forms can be downloaded from the English department website. Note that MFA applicants need not have been English majors as undergraduates.

After being admitted to the MA program, students must consult with the graduate adviser of the program they wish

to pursue in order to formulate and sign a degree plan. This certifies that the student is enrolling in courses appropriate to that program. The advisers for the MA programs offered by the Department of English are:

- Mark Noe
MA in Literature and Cultural Studies
MA in Rhetoric, Composition and Literacy Studies
MAIS
- Ed Heckler
MAESL
- José Skinner
MFA in Creative Writing

Student Classification and Admission Criteria for Graduate Study in English

Students who satisfy the undergraduate admission criteria may be admitted to graduate study in English on either an unconditional or a conditional basis.

Unconditional Admission for MA programs in the English Department

Students may be admitted to graduate study in the Department of English on an unconditional basis if they meet one of the following criteria:

- Have completed 33 semester hours of undergraduate coursework in English, 24 advanced, with a minimum GPA of 3.0.
- Have completed at least 21 semester hours of undergraduate coursework in English, 12 advanced, with a GPA of 3.25.

There is no undergraduate major required for the MAESL. Students must have a minimum GPA of 3.0.

There is no undergraduate major required for the MFA in Creative Writing. Students must have a minimum GPA of 3.0.

Foreign students whose native language is not English must score 550 or above on the Paper Based Test (PBT), a 213 or above on the Computer Based Test (CBT), or a 79 or above on the Internet Based Test (IBT) of the TOEFL.

Conditional Admission

Students who do not satisfy unconditional admission criteria but who have been granted admission to graduate study by the Office of Graduate Studies may be considered for conditional admission status in English graduate programs on the recommendation of the Department of English graduate adviser and the department chair after a review of their application materials. Conditional admission status must be removed at the end of the semester in which students are initially enrolled by earning at least a 3.0 graduate GPA in six hours of graduate coursework at the University.

Denied Admission

Students who fail to meet the requirements for unconditional admission or conditional admission are denied admission to graduate study in the Department of English. Denied admission status may be changed by improving test scores or undergraduate grade point average or through appeal to the Department of English graduate adviser for reconsideration.

Progression Through the Degree

Students seeking any graduate degree in English must maintain a cumulative GPA of at least 3.0 in the graduate hours taken in the department of English of UT Pan American. If a student's GPA falls below 3.0 in a given semester, the student will be placed on probation. If an overall 3.0 GPA is not recuperated during the following semester, the student will be placed on suspension. For more information, see page 21 of this catalog.

The Master of Arts Degree in English

The Department of English offers Master of Arts degrees in English with tracks in Literature and Cultural Studies and Rhetoric, Composition and Literacy Studies. Each of these tracks has a thesis and non-thesis option. The details of each track follow:

The Master of Arts in Literature and Cultural Studies: Thesis Option

Requirements

Thirty-three semester hours, including a thesis, are required as follows:

- A. ENG 6301 Introduction to Literary Studies
- B. Twenty-one semester hours selected from the following five areas:
- AREA I: Period or Location Courses (6 credits)
- ENG 6360 Studies in British Literature
- ENG 6370 Studies in American Literature
- ENG 6365 Topics in Literary History
- AREA II: Genre or Single Author Courses (3 credits)
- ENG 6310 Studies in Genre
- ENG 6362 Studies in Single Author
- AREA III: Theory (3 credits)
- ENG 6347 Studies in Literary Theory
- AREA IV: Topics in Gender, Ethnic and Cultural Studies (6 credits)

- ENG 6316 Studies in Mexican American Literature
- ENG 6385 Topics in Cultural Studies
- ENG 6318 Studies in Ethnic Literature
- ENG 6319 Studies in Gender and Literature

AREA V: Topics in Transnational Literature (3 credits)

- ENG 6380 Studies in Comparative Literature
- ENG 6383 Topics in Post-Colonial Studies

C. Thesis (6 credits)

- ENG 7300 Thesis
- ENG 7301 Thesis

D. Departmental Electives (3 credits)

These electives may be taken inside the MA literature track or in any other track in the Department of English. Electives taken outside the Department of English must be approved by the graduate program director.

E. Exams (0 credits)

All students pursuing an MA in English with the thesis option will complete an oral presentation at the close of the first semester of their thesis project (ENG 7300) and will complete an oral defense of the thesis upon completion of the second semester of the thesis project sequence (ENG 7301).

The Master of Arts in Literature and Cultural Studies: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to a comprehensive exam are required, as follows:

- A. ENG 6301 Introduction to Literary Studies
- B. Twenty-one semester hours selected from the following five areas:
- AREA I: Period or Location Courses (6 credits)
- ENG 6360 Studies in British Literature
- ENG 6370 Studies in American Literature
- ENG 6365 Topics in Literary History
- AREA II: Genre or Single Author Courses (3 credits)
- ENG 6310 Studies in Genre
- ENG 6362 Studies in Single Author
- AREA III: Theory (3 credits)
- ENG 6347 Studies in Literary Theory
- AREA IV: Topics in Gender, Ethnic and Cultural Studies (6 credits)
- ENG 6316 Studies in Mexican American Literature
- ENG 6385 Topics in Cultural Studies
- ENG 6318 Studies in Ethnic Literature
- ENG 6319 Studies in Gender and Literature

AREA V: Topics in Transnational Literature (3 credits)
ENG 6380 Studies in Comparative Literature
ENG 6383 Topics in Post-Colonial Studies

C. Departmental Electives (3 credits)

These electives may be taken inside the MA literature track or in any other track in the Department of English. Electives taken outside the Department of English must be approved by the graduate program director.

D. Literature Electives (9 credits)

These electives must be taken within the English MA literature track.

E. Exams (0 credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during work on the MA.

The Master of Arts in Rhetoric, Composition and Literacy Studies: Thesis Option

Thirty-three hours of graduate-level coursework, including six hours of thesis. An oral defense of the thesis prospectus and an oral defense of the thesis are required.

Core Requirements

All students in the MA program will be required to take at least one course (three credits) in each of the following four areas for a total of 12 credit hours toward the MA:

- Introduction to graduate studies in rhetoric, composition and literacy
- History of rhetoric, composition or literacy studies
- Theory in rhetoric, composition or literacy studies
- Pedagogy in rhetoric, composition or literacy studies

All core courses will focus at least in part on issues of multicultural discourses and literacies.

Areas of emphasis in graduate studies in rhetoric, composition and literacy studies include teaching (public school and community college), professional writing, and discourse and literacy studies.

Emphasis on Teaching

Students who plan to pursue or continue teaching in K-12 public schools or at the community college level can focus the remainder of their coursework in the following areas:

- With an advisers approval, a student may choose to substitute three credits of writing and three credits of literature for six credits of thesis hours.
- 6 credits of applied writing courses (professional writing, academic discourse, creative writing, proposal writing, technical writing, writing for the Web)
- 6 credits of courses in the area of pedagogy and/ or research methods (at least three of these credits should be specifically in the area of cultural rhetorics

such as comparative rhetoric, Latino/a rhetoric or pedagogy, border studies, etc)

- 3 credits of elective English courses
- 6 hours of thesis

Emphasis in Professional Writing

Students who plan to enter professions that require expertise in writing strategies will want to distribute their coursework past the core to the following areas:

- 9 credits of applied writing
- 3 credits in research methods or an approved internship
- 3 credits of elective work in graduate-level study in English or a related discipline
- 6 credits of thesis

Emphasis in Discourse and Literacy Studies

Students who intend to pursue graduate study past the MA program or are interested in applying their studies in terms of academic discourse and theoretical approaches to questions of literacy can focus the remainder of their coursework beyond the core as follows:

- 3 credits of history
- 3 credits of theory (rhetorical or literary)
- 3 credits of pedagogy
- 3 credits of elective English courses
- 3 credits of writing academic discourse
- 6 credits of thesis

The Master of Arts in Rhetoric, Composition and Literacy Studies: Non-Thesis Option

Thirty-six hours of graduate-level coursework are required as well as a comprehensive exam.

Core Requirements

All students in the MA program will be required to take at least one course (three credits) in each of the following four areas for a total of 12 credit hours toward the MA:

- Introduction to graduate studies in rhetoric, composition and literacy
- History of rhetoric, composition or literacy studies
- Theory in rhetoric, composition or literacy studies
- Pedagogy in rhetoric, composition or literacy studies

All core courses will focus at least in part on issues of multicultural discourses and literacies.

Areas of emphasis in graduate studies in rhetoric, composition and literacy studies include teaching (public school and community college), professional writing discourse and literacy studies.

Emphasis on Teaching

Students who plan to pursue or continue teaching in K-12

public schools or at the community college level can focus the remainder of their coursework in the following areas:

- 9 credits of applied writing courses (professional writing, academic discourse, creative writing, proposal writing, technical writing, writing for the web)
- 6 credits of courses in the area of pedagogy and/or research methods (at least three of these credits should be specifically in the area of cultural rhetorics such as comparative rhetoric, Latino/a rhetoric or pedagogy, border studies, etc.)
- 3 credits of linguistics
- 3 credits of literature
- 3 credits of elective English courses

Emphasis in Professional Writing

Students who plan to enter professions that require expertise in writing strategies will want to distribute their coursework past the core to the following areas:

- 12 credits of applied writing
- 3 credits in research methods or an approved internship
- 3 credits in linguistics
- 3 credits in literature
- 3 credits of elective work in graduate-level study in English related discipline

Emphasis in Discourse and Literacy Studies

Students who intend to pursue graduate study past the MA program or are interested in applying their studies in terms of academic discourse and theoretical approaches to questions of literacy can focus the remainder of their coursework beyond the core as follows:

- 3 credits of history
- 3 credits of theory (rhetorical or literary)
- 6 credits of pedagogy
- 3 credits of linguistics
- 3 credits of writing academic discourse
- 3 credits of elective English courses
- 3 credits elective (may be taken in English or any other discipline)

The Master of Arts in English as a Second Language

In addition to the general requirements stated elsewhere in this catalog, each student must pass two (three-hour) written comprehensive examinations. One comprehensive exam is in theoretical linguistics, the other in applied linguistics. The candidate is allowed to take these exams up to three times during work on the MA degree.

Some courses are offered on a rotating basis. Students should consult the graduate adviser early in their MA programs.

Major in English as a Second Language: Thesis Option

Major Requirements

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

Requirements	30 hours
ENG 6302	Modern English Syntax
ENG 6321	Studies in Language and Culture
ENG 6328	Introduction to English as a Second Language
ENG 6329	Problems in English as a Second Language
ENG 6350	Introduction to Descriptive Linguistics for Teachers
ENG 6351	Problems in Linguistics (when topic is research design)
ENG 6352	Practicum in English as a Second Language
ENG 6353	English as a Second Language Testing
ENG 7300	Thesis
ENG 7301	Thesis

Electives may be any graduate course deemed appropriate in consultation with the graduate adviser. Appropriate elective courses in English include, but are not limited to the following:

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

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

TOTAL	36 hours
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Major in English as a Second Language: Non-Thesis Option

Major Requirements

Thirty-six semester hours with the option of taking a total of up to nine hours in one or more other fields.

Required Courses	21 hours
ENG 6302	Modern English Syntax
ENG 6321	Studies in Language and Culture
ENG 6328	Introduction to English as a Second Language

ENG 6329	Problems in English as a Second Language
ENG 6350	Introduction to Descriptive Linguistics for Teachers
ENG 6352	Practicum in English as a Second Language
ENG 6353	English as a Second Language Testing

Designated Electives 6 hours

Select at least six semester hours from the following courses:

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

Electives 9 hours

Nine additional graduate hours chosen in consultation with the graduate adviser.

TOTAL	36 hours
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The Master of Arts Degree in Interdisciplinary Studies (MAIS)

The Department of English offers an MA track in interdisciplinary studies. Within this track you may choose a focus on literature or a focus on writing. Each has a thesis or non-thesis option. The details of each track follow.

The Master of Arts in Interdisciplinary Studies, Literature Focus: Thesis Option

Requirements

Thirty-three credit hours including a thesis are required. Twenty-one semester hours in English (including thesis) and 12 semester hours in other fields are chosen in consultation with the graduate adviser.

A. ENG 6301 Introduction to Literary Studies

B. Twelve semester hours in the English department selected from the following:

ENG 6310	Studies in Genre
ENG 6316	Studies in Mexican American Literature
ENG 6318	Studies in Ethnic Literature
ENG 6347	Studies in Literary Theory
ENG 6360	Studies in British Literature
ENG 6362	Studies in Single Author
ENG 6365	Topics in Literary History
ENG 6370	Studies in American Literature
ENG 6380	Studies in Comparative Literature
ENG 6383	Topics in Post-Colonial Studies

ENG 6385	Topics in Cultural Studies
ENG 6390	Studies in Special Topics

C. Interdisciplinary Courses (12 credits)

D. Thesis (6 credits)

ENG 7300	Thesis
ENG 7301	Thesis

E. Exams (0 credits)

All students pursuing an MA in English with the thesis option will complete an oral presentation at the close of the first semester of their thesis project (ENG 7300) and will complete an oral defense of the thesis upon completion of the second semester of the thesis project sequence (ENG 7301) in place of the comprehensive exam.

The Master of Arts in Interdisciplinary Studies, Literature Focus: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to the English department's comprehensive exam are required. Eighteen semester hours in English and 18 semester hours in other fields are chosen in consultation with the graduate adviser.

A. ENG 6301 Introduction to Literary Studies

B. Fifteen semester hours in the English department selected from the following:

ENG 6310	Studies in Genre
ENG 6316	Studies in Mexican American Literature
ENG 6318	Studies in Ethnic Literature
ENG 6347	Studies in Literary Theory
ENG 6360	Studies in British Literature
ENG 6362	Studies in Single Author
ENG 6365	Topics in Literary History
ENG 6370	Studies in American Literature
ENG 6380	Studies in Comparative Literature
ENG 6383	Topics in Post-Colonial Studies
ENG 6385	Topics in Cultural Studies
ENG 6390	Studies in Special Topics

C. Interdisciplinary Courses (18 credits)

D. Exam (0 credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during work on the MA.

Master of Arts Degree in Interdisciplinary Studies with a Concentration in English: Writing Focus

The choice of courses in the concentration and other fields will be determined through consultation between the student and the departmental graduate adviser. A course of study will be designed by the student, the graduate adviser and the student's graduate faculty mentor to include courses that meet individual needs. This focus is available for students working in education, sciences, business, arts and humanities, engineering, and other fields who wish to pursue graduate study in writing to augment studies in other professional areas.

Some of the Department of English courses from which students can choose includes the following:

ENG	6320	Introduction to Graduate Study in Rhetoric, Composition and Literacy
ENG	6322	Theory in Rhetoric, Composition and Literacy
ENG	6323	History in Rhetoric, Composition and Literacy
ENG	6324	Pedagogy in Rhetoric, Composition and Literacy
ENG	6325	Studies in Composition Techniques
ENG	6326	Professional Writing
ENG	6327	Writing Academic Discourse

In addition, courses from disciplines other than English will be included in the student's degree plan with the consent of the graduate adviser. These include courses from the College of Arts and Humanities, College of Business Administration, College of Education, College of Health Sciences and Human Services, College of Science and Engineering, and College of Social and Behavioral Sciences.

The Master of Arts in Interdisciplinary Studies, Writing Focus: Thesis Option

Requirements

Thirty-three credit hours including six hours of thesis (ENG 7300, ENG 7301), an oral defense of the thesis prospectus, and an oral defense of the thesis are required. Eighteen semester hours in English (including thesis) and 15 semester hours in other fields are chosen in consultation with the graduate adviser.



The Master of Arts in Interdisciplinary Studies, Writing Focus: Non-Thesis Option

Requirements

Thirty-six credit hours in addition to the English department's comprehensive exam are required. Eighteen semester hours in English and 18 semester hours in other fields are chosen in consultation with the graduate adviser.

Required Comprehensive Exam (0 credits)

All students pursuing an MA in English with the non-thesis option must pass a comprehensive examination. Candidates are allowed to take this exam up to three times during the work on the MA.

The Master of Fine Arts Degree in English/Creative Writing

Admission to the Master of Fine Arts in English/Creative Writing

In order to be admitted to the Master of Fine Arts program, the student must first meet all requirements for admission to graduate study at The University of Texas-Pan American. In addition, all MFA applicants must apply separately to the English department, providing a writing sample, letters of recommendation, a letter of application, and unofficial copies of transcripts. Detailed instructions and all necessary forms can be downloaded from the English department website. Note that MFA applicants need not have been English majors as undergraduates.

Departmental Requirements for a Master of Fine Arts in English/Creative Writing

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

1. The choice of courses to satisfy the requirements will be determined in consultation between the student and a designated adviser in the genre concentration chosen by the student (fiction, poetry, creative nonfiction screenwriting, play writing, or literary translation).
2. Each student must complete a creative thesis consisting of a significant body of creative work in addition to a critical introduction, which places that work in the context of a literary tradition. The thesis will be formally defended before the student's thesis committee.

Major Requirements

Forty-two semester hours are required, including six thesis hours.

Required Courses **3 hours**
 ENG 6325 Studies in Composition Techniques

Workshop **12 hours**
 For workshop hours, students may choose from the following:

- ENG 6336 Workshop in Fiction
- ENG 6337 Workshop in Creative Nonfiction
- ENG 6338 Workshop in Poetry
- ENG 6339 Workshop in Literary Translation
- ENG 6357 Screenwriting Workshop
- ENG 6358 Playwriting Workshop

At least three hours of workshop must be in a different genre from the student's chosen concentration.

Form and Theory Seminars **6 hours**
 For form and theory seminars, students can choose from the following:

- ENG 6386 Form and Theory of Fiction
- ENG 6387 Form and Theory of Creative Nonfiction
- ENG 6388 Form and Theory of Poetry
- ENG 6389 Form and Theory of the Novel
- ENG 6368 Form and Theory of Playwriting
- ENG 6369 Form and Theory of Screenwriting

Literature Seminars **9 hours**
 Suitable courses should be chosen from among these and other options in consultation with the student's adviser:

- ENG 6310 Studies in Genre
- ENG 6316 Mexican American Literature
- ENG 6318 Studies in Ethnic Literature
- ENG 6319 Studies in Gender and Literature
- ENG 6347 Problems in Literary Criticism
- ENG 6360 Studies in English Literature
- ENG 6370 Studies in American Literature
- ENG 6390 Studies in Special Topics
- SPAN 6339 Studies in Spanish American Literature
- SPAN 6341 Studies in Spanish Literature
- SPAN 6345 Latino/a Literature

Electives **6 hours**
 Six additional hours should be chosen in consultation with an adviser.

Thesis **6 hours**

English Graduate Course Offerings

The English department website includes a general rotation of graduate courses offered each semester. Please see this for planning your program in consultation with an adviser.

Course Descriptions

A listing of graduate courses offered by the Department of English can be found beginning on Page 221.

HISTORY AND PHILOSOPHY

Dr. Gregory Gilson,
 Department Chair

Dr. Sonia Hernandez, Graduate Program Adviser
 Communications Arts and Sciences, Room 342C
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: (956) 665-3561
 Fax: (956) 665-5096
 E-mail: MFC83B@utpa.edu

Graduate Faculty

- Adair, Penelope A., Associate Professor
- Balci, Tamer, Assistant Professor
- Birk, Megan, Assistant Professor
- Campney, Brent, Assistant Professor
- Carlson, Dave, Assistant Professor
- English, Linda, Assistant Professor
- Hay, Amy, Assistant Professor
- Hernandez, Sonia, Assistant Professor
- Hoppens, Robert, Assistant Professor
- Jones, Cynthia, Assistant Professor
- Knight, Thomas D., Assistant Professor
- Levinson, Irving, Assistant Professor
- Miller, Christopher, Associate Professor
- Pastrano, Jose G, Assistant Professor
- Pearson, Thomas, Associate Professor
- Skowronek, Russell, Associate Professor
- Waite, Charles, Assistant Professor
- Weaver, Michael K., Associate Professor
- Wirts, Kristine, Associate Professor

History Graduate Program

The department offers courses leading to the Master of Arts in history and the Master of Arts in interdisciplinary studies with a concentration in history. In addition, the department offers courses to meet the minor and support area requirements for degrees in other fields. Students pursuing the MA in history may focus on one of several specializations and should consult with the graduate adviser in selecting coursework. The department's Graduate Studies Faculty Committee has developed a policies and procedures

handbook for graduate students with 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 18 of this catalog, the requirements listed below must be met. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

- Applicants for admission must have completed, or must complete as leveling work, 18 hours of undergraduate history courses, half of which must be at the upper-division level.
- The choice of courses in the history core and history elective field will be determined through consultation between the student and the Department of History graduate adviser.
- Other departmental requirements are listed in the policies and procedures handbook.

Degree Requirements

Two options are available to graduate students under the program. Option I requires 24 hours of directed coursework and six hours of thesis preparation. Option II requires 36 hours of directed coursework and two comprehensive examinations. Students will select from either Option I or Option II.

Option I: Thesis

Students enrolled in Option I will be required to take 18 hours of history coursework, including HIST 6300, six hours of non-history coursework in a single discipline (anthropology, sociology, computer science, etc.), and six hours of thesis preparation. The thesis will be evaluated using current departmental guidelines.

Option II: Non-Thesis

Students enrolled in Option II will be required to take 30 hours of 5000/6000-level history coursework, including HIST 6300, and six hours of non-history coursework in a single discipline (anthropology, sociology, computer science, etc.). The student will choose two reading areas in consultation with the graduate adviser and will be expected to take comprehensive examinations in both. The questions for the comprehensive examinations will be based on readings contained in department-approved lists of works in those particular areas.

Related Academic Areas

Related academic areas will include, but are not limited to, political science, English, Spanish, economics, anthropology, computer science and sociology. Students will confirm their choice of a related academic area with the graduate adviser.

Master of Arts Degree in Interdisciplinary Studies

Degree Requirements

Before admission to candidacy by the Department of History, applicants must have completed, or must complete as leveling work, 18 hours of undergraduate history courses, half of which must be at the upper-division level. Full-time graduate students, who must meet the above requirements, should take up to nine hours of such leveling work while taking a limited number of graduate hours. Graduate history majors are required to consult with the departmental graduate adviser concerning coursework and schedules until admitted to candidacy. Candidates may elect one of two options to complete the Master of Arts degree in interdisciplinary studies with a concentration in history.

1. Thesis program: Thirty hours with 18 hours in history, including the thesis, which is required. Candidates must select the remaining 12 hours from two or more related fields such as political science, sociology, English, economics, Spanish, education or business.
2. Non-thesis program: Thirty-six hours with 12-18 hours in history. Candidates must select the remaining 18-24 hours from two or more related fields. Candidates must also pass a comprehensive examination administered by the department.

MAIS Degree Requirements Concentration in History: Thesis Option

Major Requirements

Eighteen hours of graduate-level coursework in history with no more than half at the 5000 level, including six hours of thesis, and 12 hours in two or more related areas. HIST 6300 is required of all students.

Required Courses

HIST	6300	Historiography and Historical Method
HIST	7300	Thesis
HIST	7301	Thesis

TOTAL		30 hours
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Concentration in History: Non-Thesis Option

Major Requirements

Eighteen hours in 5000- and 6000-level history classes without thesis with no more than half at the 5000-level and 18 hours in two or more related areas, with not more than 12 hours from education and business.

Required Course

HIST 6300 Historiography and Historical Method

TOTAL 36 hours

Course Descriptions

A listing of graduate courses offered by the Department of History and Philosophy can be found beginning on Page 234.

MODERN LANGUAGES AND LITERATURE

Dr. Glenn A. Martinez,
Department Chair

Communication Arts and Sciences Building, Room 329
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3441
Fax: (956) 665-5381
E-mail: martinezg@utpa.edu

Dr. José Esteban Hernández, Associate Chair
Communication Arts and Sciences Building,
Room 323

Dr. Nalda Báez Ferrer,
Graduate Adviser (MA and MAIS in Spanish)
Communication Arts and Sciences Building,
Room 325
Telephone: (956) 665-3441
E-mail: nbaez@utpa.edu

Dr. Guadalupe Cortina,
Graduate Adviser (Cooperative Ph.D. in Spanish)
Communication Arts and Sciences Building,
Room 316
Telephone: (956) 665-3446
E-mail: gcortina@utpa.edu

Graduate Faculty

Alvarez Martinez, Stephanie, Assistant Professor
Ardalani, Elvia G., Assistant Professor
Báez Ferrer, Nalda, Assistant Professor
Behar, Stella, Associate Professor
Contreras, Victoria, Professor
Cortina, Guadalupe M., Associate Professor
Guerrero, María Consuelo, Assistant Professor
Hernández, José E., Assistant Professor
Martin-Ochoa, Luz Maria, Assistant Professor
Martinez, Glenn A., Professor
Martinez, José M., Professor
Mejias, Hugo, Professor
Romero, Hector, Professor

Emeritus Professors

Dominguez, Sylvia
Garcia, Lino
Vassberg, Lilliane

Overview

The Department of Modern Languages and Literature offers the Master of Arts in Spanish with a concentration in literature or linguistics or a combination of literature and linguistics, and a certificate program on AP Spanish Literature. Students may elect a thesis or non-thesis. The Department also offers a cooperative Doctor of Philosophy Degree in Spanish with the University of Houston. Students in the MA may elect a thesis or non-thesis option.

Departmental Admission Requirements

In addition to the general admission requirements for graduate study, the following specific requirements must be met:

1. Applicants who wish to major in Spanish must have completed at least 12 hours of Spanish at the advanced undergraduate level.
2. Students who do not major in Spanish but wish to take graduate courses in the field must have linguistic ability equivalent to that attained on completion of the intermediate level in Spanish. Non-specialists who wish to enroll in literature in translation courses are exempted from the language ability requirement.
3. Majors will choose courses in Spanish and in related areas through consultation with their adviser.
4. Applicants must send three letters of recommendation from academic and/or professional sources (submitted online).
5. Applicants must attend an entrance interview with the program adviser (if applying for departmental financial aid).
6. Applicants must submit a résumé online.

Deadlines	Fall	Spring	Summer I	Summer II
Priority Registration Deadlines	Mar. 1	Oct. 1	Oct. 1	Oct. 1
Application Deadlines	Aug. 1	Dec. 1	May 1	June 1

Master of Arts in Spanish

Degree Requirements

37 hours (Non-thesis Option) / 36 hours (Thesis Option)
 31 hours in Spanish and 6 hours from the same discipline outside the department or from the AP Literature certificate program (see below)

or

30 hours in Spanish and 6 hours of thesis

Required Courses 10 hours

Complete the following:

SPAN	6300	Research and Bibliography
SPAN	6301	Fundamentals of Spanish Linguistics
SPAN	6302	Literary Criticism and Cultural Theory
SPAN	7100	Directed Research in Language, Literature and Culture (non-thesis option)

Concentration 18 hours

Choose 18 hours from literature, linguistics, or a combination of literature and linguistics. Certain courses can be taken several times as long as the description or topic for each course is different (Consult with the graduate adviser.) Because classes vary per semester, in order to accomplish the concentration credit courses, students can take any other graduate Spanish course in his/her specific area of concentration or an Independent Study if applicable (may be taken once). Some of the courses are:

Literature

SPAN	6339	Special Studies in Spanish American Literature
SPAN	6341	Special Studies in Spanish Literature
SPAN	6345	Latina/o Literature in the United States

Linguistics

SPAN	6307	Advanced Spanish Grammar and Composition for the Classroom Teacher
SPAN	6313	History of the Spanish Language
SPAN	6344	Problems and Issues Related to Language

SPAN	6348	Language Access Policy and Planning in Health Services
SPAN	6350	Special Studies in Spanish Linguistics

Literature and Linguistics (9 hours from literature and 9 hours from linguistics)

SPAN	6339	Special Studies in Spanish American Literature
SPAN	6341	Special Studies in Spanish Literature
SPAN	6345	Latina/o Literature in the United States
SPAN	6307	Advanced Spanish Grammar and Composition for the Classroom Teacher
SPAN	6313	History of the Spanish Language
SPAN	6344	Problems and Issues Related to Language
SPAN	6348	Language Access Policy and Planning in Health Services
SPAN	6350	Special Studies in Spanish Linguistics

Designated Electives 3 hours

Choose three hours from literature if linguistics concentration is selected.

Choose three hours from linguistics if literature concentration is selected.

Options 6 hours

Thesis Option

Complete the following:

SPAN	7300	Thesis
SPAN	7301	Thesis

Minor Option

Complete six hours from the same discipline outside of the department.

AP Option

Complete six hours from the following courses:

SPAN	6351	AP Spanish Literature (Peninsular Poetry and Drama)
SPAN	6352	AP Spanish Literature (Latin American Prose)
SPAN	6353	AP Spanish Literature (Latin American Poetry and Drama)
SPAN	6354	AP Spanish Literature (Peninsular Prose)

Comprehensive Examination

A general written comprehensive examination that will test the student's knowledge of Spanish, and is not necessarily based on courses taken, will be administered to all students at the end of their coursework. The department graduate adviser will administer the exam during the first week of November during the fall semester and during the first week of March during the spring semester. A reading list is available in the Department of Modern Languages and Literature office.

Cooperative Ph.D. in Spanish

Cooperative Ph.D. in Spanish with the University of Houston

The Department of Modern Languages offers a Ph.D. in Spanish through the Department of Hispanic Studies at the University of Houston. Studies leading to the Ph.D. in Spanish cover foundational issues in literary, linguistics, and cultural studies. The program offers specializations in the areas of U.S. Latina/Latino Literature in the United States as well as Peninsular and Latin American Literature, and formal and applied linguistics. Students enroll in up to nine hours of coursework at UTPA and the remaining 33 hours through videoconference courses delivered to the UTPA campus, independent study with a UTPA and UH faculty mentor, and summer or one-semester long residency in Houston.

Online Application

Students must apply to both UTPA and UH to participate in the cooperative Ph.D. program in Spanish. The application to UTPA's graduate programs can be completed online at www.utpa.edu/gradapply. The application to the University of Houston's graduate programs may be found at http://www.class.uh.edu/hispanicstudies/_docs/application_gradstudies.pdf.

Minimum requirements for unconditional admission to the Ph. D. in Spanish

Students who have a M.A. degree in a field other than Spanish must take concurrently with the other courses normally required for the doctoral program, one course from each of the following groups:

- Hispanic Literature of the United States
- Latin American Literature Through Modernism
- Latin American Literature Since Modernism
- Peninsular Literature Through the XVII Century
- Peninsular Literature, Centuries XVIII Through XX

Students with a MA degree in a field other than Spanish whose emphasis is linguistics will also be required to take a number of additional courses in the field (they will be advised by the senior linguistics professor).

A minimum GPA of 3.2 (A=4)

Submit online recommendations to UTPA

Send a hard copy recommendation to UH. UH only accepts hard copies directly from the recommender:

Dr. Gabriela Baeza Ventura
Ph.D. in Spanish Program
Department of Hispanic Studies
University of Houston
Houston, Texas 77204-3006

Writing sample (graded)

Acceptable scores on the general aptitude section of the GRE

Deadlines

Spring semester, Sep. 25

Fall semester, Jan. 29

* Applicants must submit all application documents and meet all other requirements by the published deadline date for the semester to which they are applying in order to be considered for admission. Note: Priority deadlines have been established that allow ample time for the application review to be completed before the first day of registration

Graduate Certificate in Mexican American Studies

This certificate is designed for students who want to pursue a concentration in Mexican American, Chicano/a, and/or Latina/o Studies. It would position them as competitive job candidates in various fields (such as the humanities, education, law, social services, communication, health, among many others) that require a specialized knowledge in Mexican American Studies, as well as master's students wanting to pursue a Ph.D.

Requirements

Students are required to take 12 hours of study in courses that have a concentration in Mexican American Studies.

Students currently enrolled in any graduate program are eligible to take coursework toward the certificate upon approval of their graduate faculty director or adviser.

Students may take no more than 6 hours in any one discipline.

Students may count coursework in their major field of study toward the certificate without penalty contingent upon approval from their graduate faculty director or adviser.

At the end of their coursework in Mexican American Studies, students will be required to present their research to Mexican American Studies students and faculty, and produce this presentation with the guidance of a faculty adviser/mentor.

Eligible Courses

ANTH	6348, 6350, 6369, 6374, 6375
ART	6352, 6353
COMM	6352

EDBE	6322
EDUL	6388
ENG	6316, 6339
HIST	5345, 5363, 6306, 6316
MUS	6335, 6336
SOCI	6345, 6354, 6362, 6363
SOCW	6330, 6332, 6675, 6975
SPAN	6339, 6344, 6345, 6348, 6350

<http://www.utpa.edu/dept/modlang/>

Course Descriptions

A listing of graduate courses offered by the Department of Modern Languages and Literature can be found beginning on Page 232 (FREN) and 284 (SPAN) except Spanish AP courses. Students who are seeking to enroll in this program must have taken Span 6302 or an equivalent literary and cultural theoretical course.

MUSIC

Dr. Pedro Martinez,

Department Chair

Fine Arts Complex,
Room 132
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3471
Fax: (956) 665-3472
E-mail: martinezp@utpa.edu
Web: <http://www.utpa.edu/dept/music>

Graduate Faculty

Amorim, George, Assistant Professor
Coberley, Rebecca, Assistant Professor
Cripps, Cynthia, Assistant Professor
and Graduate Adviser
Dabrowski, Peter, Professor
Davis, Virginia, Assistant Professor
Davis, Wendell R., Associate Professor
Glasscock, Michelle, Lecturer
Guerra, Dahlia, Professor
Janssen, Tido, Lecturer
Kinsella, Brendan, Assistant Professor
Kinsella, Shoko, Adjunct Professor
Kwak, Stacy, Adjunct Professor
Martinez, Kurt, Assistant Professor
Martinez, Pedro, Assistant Professor
Munn, Christopher, Professor
Munn, Vivian, Professor
O'Neil, Lorne W., Professor
Pagan, Joel, Assistant Professor

Ragland, Catherine, Assistant Professor
Ramirez, Mark, Assistant Professor
Roeder, Scott, Assistant Professor
Saywell, Martha, Lecturer
Seitz, Diana, Assistant Professor
Torres, Saul, Lecturer
Writer, Justin, Assistant Professor

Overview

The Department of Music offers the Master of Music degree in a 36-hour with concentration in music education, music performance, and ethnomusicology (with concentration in Mexican American music).

The department is housed in the Fine Arts Complex, which includes the 1,055-seat Fine Arts Auditorium, a 200-seat Recital Hall, three rehearsal halls, a class piano room a lecture room, and a computer-assisted theory classroom.

During the academic year, the Department of Music and Dance presents a series of performances by faculty members and guest artists, students and student ensembles.

Student performing groups include the Wind Ensemble and Symphonic Band, University Choir, String and Symphony Orchestra, Guitar Ensemble, Jazz Ensemble, One O'Clock Latin Band, Pep Band, Brass Ensemble, Mariachi, Percussion Ensemble, Drum Line, Opera/Musical Theatre, Men's Chorus, Women's Chorus, Men's Barbershop Quartet, Saxophone Ensemble, Flute Ensemble, Clarinet Ensemble, Viola Ensemble, Cello Ensemble, Double Bass Ensemble, Brass Quintet, Woodwind Quintet, String Quartet, Tuba-Euphonium Ensemble, Trumpet Ensemble, and Trombone Ensemble. For information about performance dates on campus, contact the Department of Music office at (956) 665-3471.

Master of Music

Admissions Standards

In order to be admitted to the program, students must first meet all requirements for admission to the UT Pan American Graduate School (see PAGE 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

In addition, the following specific requirements must be met:

1. The applicant must have completed the requirements for a Bachelor of Music, Bachelor of Music Education, Bachelor of Arts, or Bachelor of Science degree. Applicants with a major in a subject other than music may be required to complete leveling undergraduate coursework.

2. The applicant must have a 3.0 cumulative GPA for clear admission to the program.
3. The applicant may transfer up to six hours of graduate work from other accredited institutions, provided such courses are acceptable by the department and have been taken within the required time period of seven years to graduation.
4. Additional requirements of the department of Music and Dance:

Any voice students seeking a degree in music performance must take diagnostic exams to measure proficiency in French, German, and Italian. Deficiency in any of these areas will require additional course work.

MM – Performance – The applicant must perform an audition, either for the spring audition committee or for a graduate faculty committee organized by the appropriate applied teacher or graduate adviser. The applicant should prepare contrasting etudes or solos representative of an advanced level. String, guitar, piano, and voice students are expected to perform the materials from memory. The committee will also ask for scales and sight reading. Specific repertoire requirements are available from the appropriate applied teacher. The committee will recommend or not recommend the applicant for admission.

MM – Music Education – The applicant will need to provide a live teaching sample (DVD) of approximately 50 minutes. This recording may be either a guest coaching of a UTPA ensemble (to be arranged by the graduate adviser and/or the ensemble director), or video of classroom/private teaching.

MM – Ethnomusicology – The applicant must submit a writing sample on a topic in music research. Any students seeking a degree in ethnomusicology must take diagnostic exams to measure proficiency in Spanish and English. Deficiency in either of these areas will require additional coursework.

Refer to the Graduate Handbook online for more information:

<http://www.utpa.edu/dept/music/graduate.html>

Degree Requirements

Students will select an area of concentration (ethnomusicology, music education 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 in the area of music education.

Option III: A configuration in which the student pursues and develops as a performer on his respective instrument.

ETHNOMUSICOLOGY: Option

(with an emphasis in Mexican-American music)

COURSE	SCH		
MUS 6334		Music Research Methods	3
MUS 6337		Foundations of Ethnomusicology	3
MUS 6338		Music Ethnography and Fieldwork Methods	3
		Seminars in Music and Culture (MUS 6370-6374): Topics vary: World Music Cultures, Studies in Music and Gender, Music of Africa and the African Diaspora, Music of Latin America and the Caribbean	6
		Seminars chosen from Anthropology*, Sociology**, or History***	6
		Seminars chosen from specific topics in Mexican Folk Music+	6
		Music Electives	3
		Music History (MUS 6360-6368)	
		Music Theory (MUS 6350-6354)	
		Music Education (MUS 6240 or MUS 6340-6347)	
		Applied Music (MUS 6230)	
		Chamber Music (MUS 6120)	
		MUS 7300, 7301 Thesis	6
TOTAL			36
		* ANTH 6348 Peoples and Cultures of Mexico or otherdepartmentally approved anthropology courses	
		** SOC 6362 Mexican-American Society	
		*** HIST 6316 Studies in Mexican and American Heritages	
		+ MUS 6335 Music of Greater Mexico, MUS 6336 Borderland Music and Performance	

Music Education: Option without Thesis (with Final Project)

General Education:

COURSE	SCH		
		Music Theory (2 courses) (MUS 6350-6354)	6
		Music History (2 courses) (MUS 6360-6368)	6
		MUS 6334 Music Research Methods	3

Core Courses:	
Music Electives	3
Final Project (MUS 6390)	3
MUS 6230 Applied Music	4
MUS 6240 Pedagogy of Major Instrument	2
Music Education (3 courses) (MUS 6340-6347)	9
TOTAL	36

MUSIC EDUCATION: Option with Thesis

General Education:	
COURSE SCH	
Music Theory (2 courses) (MUS 6350-6354)	6
Music History (2 courses) (MUS 6360-6368)	6
MUS 6334 Music Research Methods	3
Core Courses:	
MUS 6230 Applied Instrument/Voice	4
MUS 6240 Pedagogy of Major Instrument	2
Music Education (3 courses) (MUS 6340-6347)	9
MUS 7300, 7301 Thesis	6
TOTAL	36

PERFORMANCE: Option without Thesis

General Education:	
COURSE SCH	
Music Theory (2 courses) (MUS 6350-6354)	6
Music History (2 courses) (MUS 6360-6368)	6
MUS 6334 Music Research Methods	3
Core Courses:	
Music Electives	6
MUS 6120 Chamber Music/Large Ensemble	4
MUS 6130 Recital	1
MUS 6230 Applied Music in Major Instrument	8
MUS 6240 Pedagogy of Major Instrument	2
TOTAL	36

PERFORMANCE: Option with Thesis

General Education:	
COURSE SCH	
Music Theory (2 courses) (MUS 6350-6354)	6
Music History (2 courses) (MUS 6360-6368)	6
MUS 6334 Music Research Methods	3
Core Courses:	
MUS 6120 Chamber Music/Large Ensemble	4
MUS 6130 Recital	1
MUS 6230 Applied Music in Major Instrument	8
MUS 6240 Pedagogy of Major Instrument	2
MUS 7300, 7301 Thesis	6
TOTAL	36

Special Requirements of the Program

The performance option requires a minimum of a 60-minute public recital of music repertoire appropriate to the level of graduate study. A recital committee will decide what portion of the music will be performed from memory. The student must pass a pre-recital hearing a minimum of 10 days prior to the recital date.

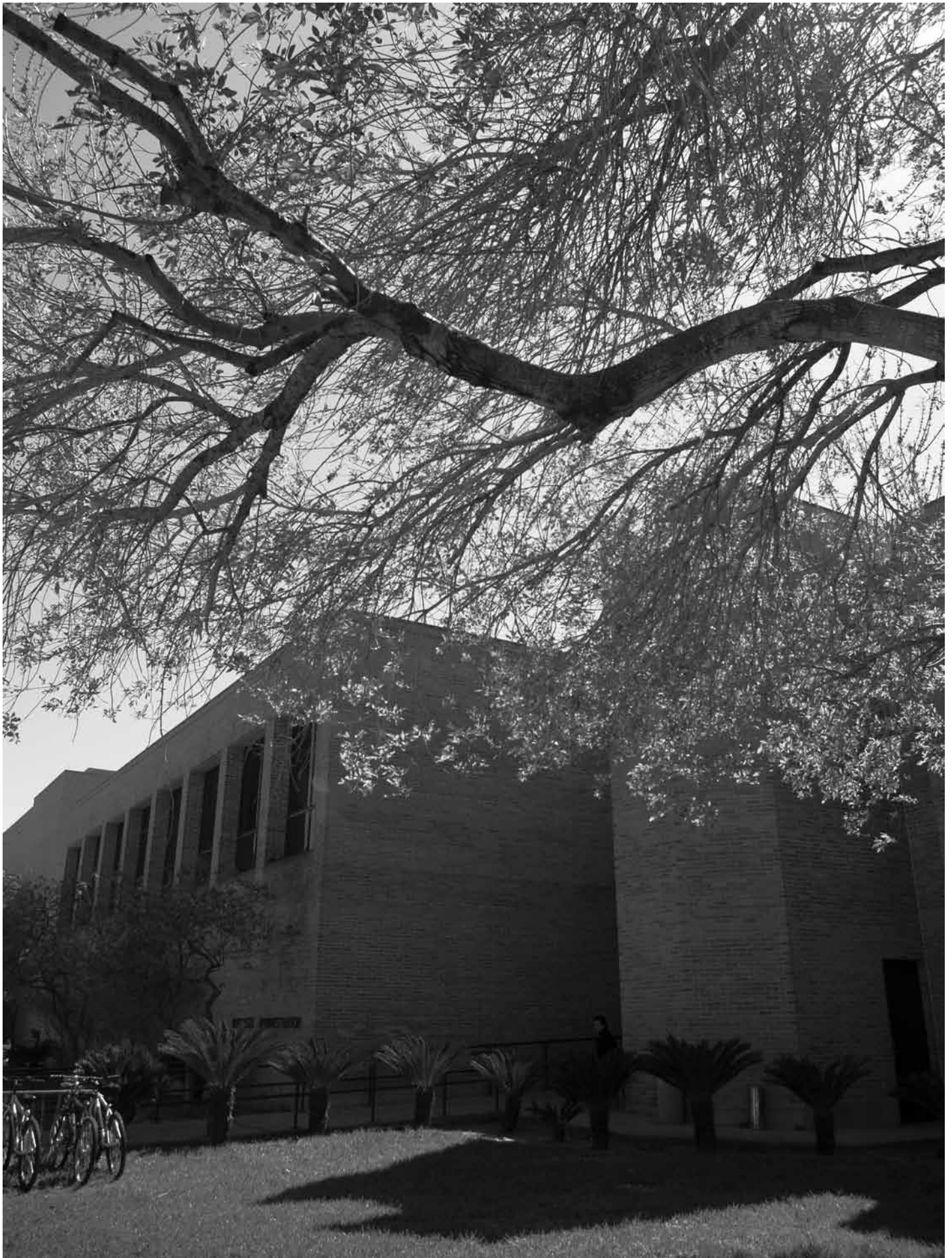
The thesis option will require a research study designed to produce new and original conclusions and knowledge. The student must prepare a formal proposal that must be approved by the thesis committee. Approval of the final paper by the thesis committee will be a requirement for graduation. The student must also successfully defend the thesis.

All students in the Master of Music program must pass a general written and oral comprehensive exam designed and administered by the student's advisory committee at the end of the degree program.

Course Descriptions

A listing of graduate courses offered by the Department of Music can be found on PAGE 254.





COLLEGE OF BUSINESS ADMINISTRATION

General Overview

The College of Business Administration (COBA) at The University of Texas-Pan American has 60 full-time faculty, who serve approximately 2,650 students working toward the Doctor of Philosophy (Ph.D.) in Business Administration, the Master of Business Administration (MBA), Master of Accountancy (MACC), Master of Science in Accounting (MSA), or the Bachelor of Business Administration (BBA). All programs in the College of Business Administration are fully accredited by The Association to Advance Collegiate Schools of Business (AACSB) International.

Academic Programs

The COBA is organized into five departments: Department of Accounting and Business Law, Department of Computer Information Systems and Quantitative Methods, Department of Economics and Finance, Department of Management, and the Department of Marketing. The five department chairs, the MBA program director, Ph.D. program director, director of undergraduate studies, and the associate deans serve with the dean in coordinating the academic activities of the college.

COBA houses the Valley Markets and Tourism Research Center, which conducts research on issues of tourism, seniors, border shopping behavior and ecotourism, especially in the lower Rio Grande Valley area.

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Graduate Faculty

Accounting

Anabila, Andrew A., Assistant Professor
Darcy, John, Associate Professor
Moyes, Glen, Professor
Smolarski, Jan, Associate Professor
Whan, Eun Young, Assistant Professor
Young, Randall, Assistant Professor
Zhou, Haiyan, Associate Professor

Computer Information Systems

Ahluwalia, Punit, Assistant Professor
Crossler, Robert, Assistant Professor
Hughes, Jerald, Assistant Professor
Koong, Kai S., Professor
Liu, Lai C., Professor
Midha, Vishal, Assistant Professor
Roge, Joseph, Associate Professor
Qin, Hong, Assistant Professor
Wang, Bin, Associate Professor

Economics

Boudreau, James, Assistant Professor
Contreras, Salvador, Assistant Professor
Damianov, Damian, Assistant Professor
Dávila, Alberto, Professor
Escobari, Diego, Assistant Professor
Mollick, Andre Varella, Professor
Mora, Marie T., Professor
Ozuna, Teofilo, Professor

Finance

Brown, Cynthia, Professor
Chen, Haiwei, Associate Professor
Desai, Chintal, Assistant Professor
Jackson, Dave O., Associate Professor
Jin, Changha, Assistant Professor
Ngo, Thanh, Assistant Professor

Management

Abebe, Michael A., Assistant Professor
Brewerton, F.J., Professor
Gonzalez, Jorge, Assistant Professor
Jung, Joo, Associate Professor
Kaynak, Hale, Professor
Matthews, Linda, Professor
Sargent, John, Professor
Sturges, David, Associate Professor
Wang, Lei, Assistant Professor
Wellbourne, Jennifer, Assistant Professor
Wu, Sibin, Associate Professor

Marketing

Cortes, Angelica, Associate Professor
Firat, A. Fuat, Professor
Gressel, Justin, Assistant Professor
Guo, Chiquan, Associate Professor
Minor, Michael, Professor
Sheng, Xiaojing, Assistant Professor
Simpson, Penny, Professor
Vasquez-Parraga, Arturo, Professor
Weisstein, Fei Lee, Assistant Professor
Zolfagharian, Mohammadali, Assistant Professor

Quantitative Methods

Sun, Jun, Assistant Professor

BUSINESS ADMINISTRATION

Dave O. Jackson,
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The College of Business Administration provides for advanced study leading to the Master of Business Administration (MBA) degree, Master of Accountancy (MACC), and Master of Science in Accounting (MSA). The mission of the business master's programs at UT Pan American is to provide South Texas with high quality graduate business education programs comparable to the leading regional business education institutions in the nation. The MBA program is accredited by the AACSB International, the premier accreditation body for business schools in the United States.

MBA Degree Program

The MBA program is designed for those who desire to pursue advanced study in a multicultural business environment as a means of enhancing their business and administrative careers. Specifically, the program is designed to aid in meeting the career needs of those:

1. In executive or administrative positions in business, industry, government and service industries who wish to enhance their career opportunities.
2. Who wish to broaden their knowledge in the functional business areas in order to be more effective and self-assured in their management abilities
3. Who are just starting their business careers or who plan to continue their study leading to the Doctor of Philosophy or Doctor of Business Administration.

Scope

The MBA degree is a broad-based 36-hour program designed to expose students to management and analytical decision-making skills needed to function in a changing business environment. The program may be completed within two academic years. Program courses are scheduled during evening hours or weekends to accommodate the large number of students with full-time day jobs.

The MBA program is open to those students who have a bachelor's degree in any discipline. However MBA foundation courses or their equivalents should be taken prior to enrolling in advanced classes.

Admission to the MBA

Interested students may apply to the MBA at any time prior to Aug. 1 for the fall semester and Dec. 1 for the spring semester. Application for admission and all required documents must be submitted online at www.utpa.edu/gradschool. Once submitted, applicants may check the status of their applications online or by contacting the Graduate Office.

To be admitted to the MBA, students must meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements of the MBA program as listed below.

Admission Documents

1. Application
2. Official transcripts from all previous colleges and universities.
3. All students applying for admission to the MBA program must submit the Official GMAT scores that are within five years of the date of application to the program.
4. If necessary, catalog(s) for evaluation of transcript(s).
5. Three letters of recommendation from professors or supervisors.
6. Updated résumé.

Admission Criteria

Criteria for admission to the MBA program are in addition to those for admission to the University for graduate study.

Admission to the program is determined by the MBA Committee using all required admissions documents, but a GMAT score of 400 and a 3.0 GPA in the last 60 credit hours of undergraduate coursework in the United States is the general minimum criteria for unconditional admission.

Admission of International Students

International students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required to be admitted to a master's program in business.

MBA Degree Requirements

The number of hours required for an MBA degree will vary depending upon prior academic coursework.

In addition to fulfilling general requirements for a master's degree specified UT Pan American, candidates for the MBA should complete foundation courses or their equivalents prior to taking advanced courses in the MBA program, unless the student is granted approval by the MBA program director.

MBA Foundation Courses		15 SCH
ACCT 6301	Principles of Accounting	3
ECON 6301	Principles of Economics	3
FINA 6303	Introduction to Finance	3
INTB 6304	Business Foundations	3
QUMT 6303	Statistical Foundations	3

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) must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the director of the business master's programs.

MBA Core Courses		27 SCH	
ACCT	6320	Financial and Managerial Accounting	3
MGMT	6330	Organizational Behavior	3
FINA	6340	Financial Administration	3
ECON	6350	Managerial Economics	3
MGMT	6360	Operations Management	3
MARK	6370	Marketing Policy and Management	3
QUMT	6310	Business Research Foundations	3
MIS	6330	Management Information Systems	3
MGMT	6390	Strategic Management	3

Graduate Electives **9 SCH**

Electives will be selected from approved graduate offerings of the University. Six hours may be taken from offerings outside the College of Business Administration with the approval of the MBA program director.

Emphasis

Students may have an emphasis in the MBA program by taking at least nine graduate elective hours in one designated area. The designated area may be accounting, economics, finance, health care administration and leadership, management, management information systems or marketing.

TOTAL FOR MBA DEGREE **36-48 SCH**

Thesis Option

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

Academic Standing

Three-C Rule

A master's degree candidate is ineligible to continue in the program if a grade of C or lower is received in any three courses taken to complete the requirements of the MBA degree. Receipt of a higher grade in a course that has been repeated does not cause the original grade to be disregarded in the application of this rule. All earned grades are included.

"F" Rule

An MBA student who receives a grade of an F will automatically be dismissed from the program. The student may appeal the dismissal to the dean of the college.

MBA Online Program

The Master of Business Administration Online (MBAO) program provides today's students with the tools necessary to become leaders in the workplace of tomorrow. The MBAO program pools the impressive resources and diverse perspectives of five accredited University of Texas System Institutions. Students will find a highly skilled, statewide team of professors presenting an interactive curriculum. The program offers the choice of a general management degree, but also offers an option of three finance courses as electives.

The collaborative 48-hour degree curriculum may be completed entirely online where students and faculty interact via chat rooms and internet-based group activities and research projects. Areas of study in the MBAO degree include accounting, finance, administration, business law, economics, marketing, statistics and technology. The UT

Online Consortium (UTOC) is the central support unit for online education within The University of Texas System. UTOC provides students with admissions links, learning resources and support services for the MBAO. For admission students apply to their choice of a UT participating campus, and the selected campus will award the MBA degree upon successful completion of the curriculum.

Courses are offered each semester in keeping with the academic calendars of the UT System. For more information about participating in the MBAO program, contact the MBA program office.

Participating Campuses in the MBA Online:

- The University of Texas at Arlington
- The University of Texas at Brownsville
- The University of Texas at El Paso
- The University of Texas-Pan American
- The University of Texas of the Permian Basin
- The University of Texas at San Antonio

The University of Texas at Dallas also contributes courses toward the program. All universities are SACS accredited (Southern Association of Colleges and Schools), and most are AACSB International accredited with the remainders in the AACSB candidacy process.

MBA Online Tuition and Fees

The MBA Online is a collaborative program and students take courses from each of the participating campuses to complete the degree plan. Each host campus bills students individually. The host campus of the course determines tuition and fees for each course.

Graduate Certificate in Advanced Business Administration

The certificate in Advanced Business Administration (CABA) is a graduate program that provides students with the fundamentals of business concepts, theories and practices. Students who earn the certificate will be prepared to apply the learned concepts to real business situations in a variety of industries. The program is especially designed to meet the needs of college graduates with non-business degrees who either need a better understanding of accepted and current business practices or who are preparing for admission to the MBA program.

The certificate program can be completed by taking the following courses:

ACCT	6301	Principles of Accounting
ECON	6301	Principles of Economics
FINA	6303	Introduction to Finance
MARK	6301	Foundations of Marketing
MGMT	6301	Foundations of Management
QUMT	6303	Statistical Foundations

Graduate Certificate in Health Care Administration and Leadership

The Certificate in Health Care Administration and Leadership is a graduate program designed to prepare students to lead in the planning, directing, coordinating and delivering of health care services. The program consists of 12 credit hours of courses that focus on administrative and leadership skills and concepts for health care managers to better survive and prosper in an increasingly complex and rapidly changing health care delivery environment.

The certificate program can be completed by taking four of the following five courses:

ECON	6354	Health Economics
MANA	6331	Human Resource Management
MBAO	6372/MGMT6332	Organizational Leadership and Change
NURS	6307	Health Care Policy, Organization and Financing
SPAN	6348	Language Access Policy and Planning in Health Services

Graduate Assistants

The College of Business Administration at UT Pan American employs graduate assistants as teaching or research assistants, depending upon the needs and budget of the college. Assistantships are awarded each semester with renewal based on successful academic and graduate assistant performance. Full-time graduate assistants are required to devote approximately 20 hours per week per semester to their assignment while maintaining an enrollment in a minimum of nine hours of graduate coursework (six hours during summer sessions) or 12 hours of undergraduate coursework leading to the completion of the master's degree. Graduate assistants employed during summer sessions are expected to enroll in at least six hours of graduate or undergraduate coursework leading to a master's degree. Reappointment of a graduate assistant shall be limited to a maximum of three years.

Applications for assistantship awards are available through the business master's programs. The completed application must be submitted to the program director. New students applying for an assistantship must submit a letter stating that they do intend to enroll in a master's program in the College of Business Administration.

Decisions to award graduate assistantships are made on a competitive and/or college-need basis by the director of the business master's programs, and where appropriate, the chair of the department involved. Graduate students placed on academic probation or suspension, are ineligible to serve as graduate assistants.

MASTER'S PROGRAMS IN ACCOUNTING

Randall Young,
Coordinator

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The Master of Accountancy (MACC) and Master of Science in Accounting (MSA) programs are designed to enable students to compete for professional accounting positions in business and government as well as in public accounting firms. Either degree qualifies a graduate to meet the 150-hour requirements of the Texas State Board of Public Accountancy to sit for the Certified Public Accountant examination, and permits specialization in accounting beyond in the MBA Program or the undergraduate accounting degree (Bachelor of Business Administration).

In our programs we provide a learning environment to develop a diverse set of skills in students including technical competence, critical thinking, strong communication abilities and the ability to use technology to prepare them for professional careers in a dynamic world. The foregoing statement, taken from the department mission statement, reflects the desired learning outcomes from both the undergraduate and graduate programs. The MACC and MSA programs further develop those learning outcomes.

Both the MACC and MSA programs meet the same educational objectives; however, each program addresses the needs of a slightly different population. The MACC program assumes that the student either has an undergraduate degree in accounting or has taken the leveling courses necessary to succeed in the program. It meets the needs of past graduates in accounting as well as those who may wish to retrain themselves to be accountants. The MSA program leads to the simultaneous awarding of a BBA with a major in accounting and a Master of Science in Accounting. The program is designed for above average students who are willing to commit themselves to a five-year program during their junior year. This option allows the student to take graduate-level coursework along with undergraduate-level courses enabling the student to more efficiently complete the graduate program requirements.

MACC Program

To be admitted to the MACC program, the student must first meet all requirements for graduate admission to UT

Pan American (see page 18). Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

MSA Program

To be provisionally admitted to the MSA program, a student must meet all of the following criteria:

1. Have completed 75 hours of undergraduate work with an overall GPA of 2.5 or higher.
2. Have a GPA of 3.0 or better in ACC 2301, ACC 2302, and the first accounting course taken in the 3000 range.

Students with provisional admission to the MSA program will apply for unconditional admittance to the MSA program during the last semester of their senior year. At that time, they must meet the following criteria:

1. Have no more than nine hours of undergraduate work remaining.
2. Have an overall GPA of 2.5 or higher.
3. Have a GPA in accounting courses of 3.0 or higher.
4. Provide a letter of intent explaining why they wish to obtain the MSA degree.

Provisional admittance to the program allows the student to begin to take graduate-level courses while completing the remaining undergraduate work. Students who have been provisionally admitted to the MSA but who fail to be unconditionally admitted during the last semester of their senior year will be expected to meet the BBA in accounting degree requirements to receive a bachelor's degree; further, such students may seek admittance into the MACC program to complete a graduate degree in accounting.

Degree Requirements

Master of Accountancy

a. Foundation Courses-Leveling Courses*	24 SCH
ACC 6301 Principles of Accounting or equivalent	3
ACC 3320 Cost Accounting	3
ACC 3321 Intermediate Accounting I	3
ACC 3322 Intermediate Accounting II	3
ACC 3323 Income Tax Procedure	3
ACC 3326 Accounting Information Systems	3
ACC 3327 Fundamentals of Auditing	3
ACC 4330 Advanced Accounting	3
b. Courses required of all students	30 SCH
MACC 6310 Auditing	3
MACC 6320 Tax Topics	3
MACC 6330 Accounting Theory	3
MACC 6340 Managerial Accounting	3

College of Business Administration

MACC	6350	Information Technology	3
MACC	6360	Tax Research Methodology	3
MACC	6370	Internal Auditing	3
MACC	6333	Business Law for Accountants**	3
FINA	6340	Financial Administration	3
MACC	6380	Professional Ethics	3

c. Courses freely elected by students 6 SCH

Elect two courses from MBA or MACC courses not included in the program. Graduate accounting majors cannot elect to take MACC 6320 as an elective.

Total hours required for MACC degree 36 SCH

*The leveling courses apply to a person who does not have an undergraduate degree in accounting.

Master of Science in Accounting

a. Foundation Courses 43 SCH

Consisting of the University core requirements at UTPA.

b. Courses required of all students in the MSA

1. Business Foundation 24 SCH

ACC	2301	Introduction to Financial Accounting	3
ACC	2302	Fundamentals of Managerial Accounting	3
CIS	1101	Introduction to Office Software and	1
CIS	1201	Introduction to Information Systems Technology or	2
CIS	1301	Computer Information Systems	3
ECON	2301	Principles of Economics I3	
ECON	2302	Principles of Economics II	3
MATH	1340	College Algebra or	
MATH	1341	Business Algebra	3
MATH	1342	Business Calculus or	
QUMT	2340	Introduction to Quantitative Methods in Business	3
COMM	1303	Presentational Speaking or	
COMM	1313	Fundamentals of Speech Communication	3

2. Business Core 30 SCH

BLAW	3337	Business Law I**	3
ACC	3326	Accounting Information Systems*	3
FINA	3383	Managerial Finance**	3

INTB	3330	International Business	3
ECON	3360	Managerial Economics or	
ECON	3381	Money and Banking	3
MANA	3361	Principles of Management and Organizational Behavior	3
ACCT	3328	Advanced Managerial Accounting*	3
MANA	4369	Strategic Management	3
MARK	3371	Principles of Marketing	3
QUMT	3343	Intermediate Business and Economic Statistics	3

3. Accounting Specialization

(Undergraduate level) 21 SCH

ACC	3320	Cost Accounting	3
ACC	3321	Intermediate Accounting I	3
ACC	3322	Intermediate Accounting II	3
ACC	3323	Income Tax Procedure	3
ACC	3327	Fundamentals of Auditing	3
ACC	3328	Quantitative Methods in Accounting	3
ACC	4330	Advanced Accounting	3

4. Master's Level Requirements 24-30 SCH

MACC	6310	Auditing	3
MACC	6320	Tax Topics	3
MACC	6330	Accounting Theory	3
MACC	6340	Managerial Accounting	3
MACC	6350	Information Technology	3
MACC	6360	Tax Research Methodology	3
MACC	6370	Internal Auditing and Assurance Services	3
MACC	6333	Business Law for Accountants**	3
FINA	6340	Financial Administration**	3
MACC	6380	Professional Ethics	3

c. Courses freely elected by students 6 SCH

Elect two courses from MBA or MACC courses not included in this program. Graduate accounting majors cannot elect to take MACC 6329 as an elective.

Total hours required for simultaneous BBA and MSA degrees 149-154 SCH

*ACC 3326 and ACC 3328 are required to be taken as the selected courses in the information systems and analytical methods categories of the business core courses.

**Students provisionally admitted to the MSA program and making an A in BLAW 3337 and/or FINA 3383 may waive MACC 6333 and FINA 6340, respectively.

The MSA program has several courses unique to that alternative. At the undergraduate level, the student takes ACC 3326 Accounting Information Systems as the selected course in the information systems category of the business core courses. Also, the student takes ACC 3328 Quantitative Methods in Accounting as the selected course in the analytical methods category of the business core

courses. Additionally, students earning an A in BLAW 3337 and/or FINA 3383 may waive MACC 6333 and FINA 6340, respectively. Finally, students in the MSA program do not have to have three hours of accounting electives as specified in the BBA program.

Both the MSA and MACC programs will offer graduate courses in two delivery formats – the traditional classroom setting and online through the Center for Distance Learning at UT Pan American. A student may take all courses in either format or may select a mix of delivery methods. However, a student must have the permission of the chair of the Department of Accounting and Business Law to enroll in more than nine hours of graduate work during a single semester.

Course Descriptions

Descriptions of the courses for the master's program in business can be found under the appropriate course prefix title in the Course Descriptions section of this catalog beginning on page 189 (ACC) or 238 (MACC).

DOCTORAL PROGRAM IN BUSINESS ADMINISTRATION

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Mission

The Ph.D. in Business Administration is designed to prepare students for careers in research and teaching. Flexibility in program design allows for students who seek career opportunities in the global business environment. The program seeks to create an intellectual climate that embraces diversity and global awareness. The college is committed to meeting the needs of the Rio Grande Valley region, and particular emphasis is placed on business practices as they relate to North, Central and South America.

Scope

The doctoral degree in business administration is a minimum 66-hour degree program. Each student selects a functional area major from computer information systems, finance/economics, management or marketing. In consultation with his or her advisory committee, the student selects courses to create an individual degree program. All students are expected to complete a quantitative methods sequence and a support field sequence designed to provide an understanding of the cultural, political and social implications of global business.

Easy access to the maquiladoras and numerous exchange agreements make it possible for the student to engage in joint research projects with an international university. All students are expected to demonstrate a working command of a language other than English before graduation. After coursework is completed, students take comprehensive examinations followed by the writing and defending of the dissertation. Each dissertation is expected to make a significant contribution to the field of knowledge encompassing global business administration.

Admission to the Ph.D. Program

To be admitted for graduate study at UT Pan American, the student must meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Applicants must attach or request the following through their online application:

1. Official scores from the Graduate Management Admission Test (GMAT) or alternatively GRE.
2. Official scores from the Test of English as a Foreign Language (TOEFL), if English is not the primary language of the applicant
3. Official scores from the Test of Spoken English (TSE), if applicable.
4. Three letters of recommendation from references who can attest to the applicant's scholarly potential.
5. A brief essay from the applicant describing his/her objectives in pursuing doctoral study.
6. An additional nonrefundable application fee of \$35 (U.S.) to cover costs of application evaluation (paid online with university application fee).

Admission decisions for the doctoral program are made by an admissions committee. The committee members make a determination with respect to the probability of success. Thus, the student should provide materials that will be helpful in making this determination. Applications are for entrance to the program in the fall semester. For fall admission, the doctoral program should receive all documents by March 1, preceding the fall of entrance desired. No students are admitted to begin in spring or summer.

Foundation Coursework

All students entering the Ph.D. program are required to have a business administration foundation. The foundation may be achieved by holding an MBA degree, an MS in a business field or a selection of coursework designed to provide the foundation. The foundation coursework should be completed during the first year of the doctoral program or subject to the advice of the student's program adviser for other time limits, and MUST include:

Mathematics

Minimum six hours in linear algebra and calculus courses

Business Administration

Minimum of three hours each from graduate courses in accounting (ACCT 6301 or equivalent), management (MGMT 6330 or equivalent), finance (FINA 6303 or equivalent), and marketing (MARK 6370 or equivalent)

Statistics

Minimum three hours at the graduate level (QUMT 6303 or equivalent)

Transfer of Coursework

Up to nine hours of doctoral course credit may be transferred toward the degree at UT Pan American. However, hours are not automatically transferred. Students must apply to the Ph.D. program director to have specific courses evaluated for inclusion in their degree plans. In general, courses transferred must have been taken in a timeframe that permits the student to complete degree requirements at UT Pan American within a 10-year span from the date of first enrollment in transferred courses.

Ph.D. Degree Requirements

The Ph.D. degree is a minimum 66-hour degree program. The precise number of hours depends on the program designed by the student and his or her program advisory committee and by the length of time required to complete the dissertation. The 66 hours include:

Foundation Seminars	9 hours
Area Core Seminars and electives	30 hours
Scholarship Seminar	3 hours
Independent Study for Comp Exams	3 hours
Pre-dissertation	9 hours
Dissertation	12 hours
Total	66 hours

The Foundation Seminars include Research Methods I seminar, a methodology course, and Statistical Analysis I and II, which concentrate on multivariate statistics.

Coursework for the Ph.D. program will be planned such that it is completed in five semesters (or 2 1/2 years) and students will be encouraged to move along toward selecting

a dissertation topic within this time.

Each student must demonstrate a foreign language that supports the dissertation research. Demonstration of language skills includes, but is not limited to, the following:

1. Performance by writing a scholarly paper in the language.
2. Submitting college transcripts showing a minimum of three years of language (18 semester hours) at the undergraduate level.
3. Showing evidence of participating in a concentrated language institute to the intermediate level.
4. Receiving scores above the 70th percentile on the standardized test in language. Language fulfillment is the responsibility of the student and is in addition to hours required for the degree.
5. Providing evidence that one's native language is other than English. Language performance is the responsibility of the student and is in addition to the hours required for the degree.

All students are required to take written examinations in their major fields and in methodology after the completion of required coursework (not including electives) after the second academic year. Successful completion of the exams is required before the student may enroll in dissertation hours. An oral examination may be required depending on the student's performance on the written exam and will be scheduled within three weeks after the written exam, if needed.

Academic Standing

Upon receipt of a grade of C the student will be on academic probation. In such a case the student must make an appointment with his or her academic adviser, the PPD, or DDC chair to discuss future courses and expectations. In collaboration with the adviser, the PPD, or DDC chair, the student will develop a written plan for improvement. Upon successful execution of the terms of the plan, the student will be released from academic probation.

Upon receipt of a second grade of C the student will be suspended from the program for one full semester, effective immediately upon receipt of the grade. The student will be unable to participate in any part of the doctoral program including comprehensive exams, unless approved by appeal. The suspension also includes forfeiture of any doctoral study financial aid. Returning to the program does not carry a guarantee of reinstatement of financial aid. The student may be asked to follow a program of improvement to be decided by the academic adviser or DDC chair in consultation with the PPD.

Receipt of a third C or a grade of F will result in the student's dismissal from the program. A student desiring to appeal such dismissal may petition the Ph.D. ACC committee. The appeal must be received within 10 days of notification to the student of dismissal. A final appeal may be made to the dean of the College of Business Administration.

If a student's cumulative GPA falls below 3.0, he or she will forfeit any financial aid from the doctoral program. Raising the GPA to above 3.0 in subsequent semesters does not guarantee reinstatement of financial aid.

Course Scheduling and Residency Requirement

Doctoral courses are generally scheduled in the afternoons. This schedule permits students on assistantships to teach courses in the mornings or in the evenings. Each student must complete a residency as a full-time student consisting of a minimum of two consecutive long sessions with a minimum of nine hours in each semester. Hours of dissertation credit may not be used to fulfill this requirement. Part-time students may be admitted on a case by case basis in exceptional situations.

Maximum Period for Completion

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

Assistantships

The college has limited funds available exclusively for Ph.D. students. Assistantships are made on a competitive basis, and the judgment of the admissions committee regarding distribution of assistantships is final. No financial support from the doctoral program is available for part-time students. Incoming applicants requesting assistantships from the College of Business Administration should submit their request with their application materials. Academic performance will be reviewed each year to ensure the student is making satisfactory progress.

The Ph.D. program director will notify continuing students of the timelines for renewing or applying for assistantships. At a minimum, the student must be in good academic standing, enrolled in nine hours as a graduate student during the fall and/or spring semester. The maximum amount of time allowed for assigned teaching and research duties is 20 hours per week.

Students should contact UT Pan American's Student Financial Services to determine if other sources of financial aid are available.

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 193.





COLLEGE OF EDUCATION

Dr. Salvador Hector Ochoa, Dean

General Overview

The College of Education (COE) includes the Department of Curriculum and Instruction, Department of Educational Leadership, Department of Educational Psychology, and Department of Health and Kinesiology.

College of Education, Room 3.102
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2943
Fax: (956) 665-2184

E-mail: shochoa@utpa.edu

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

Academic Programs

The COE offers the following degree programs at the graduate level: Master of Education (M.Ed.) degrees in bilingual education, early childhood education, elementary education, secondary education, reading, special education, educational diagnostician, gifted education, guidance and counseling, and educational administration. In addition, COE offers a Master of Arts (MA) in school psychology, Master of Science (MS) in kinesiology, and an Ed.D. in educational leadership. The college also offers the opportunity for completion of certification and licensure 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.

All COE programs are fully accredited by the State Board for Educator Certification.

Graduate Admission Requirements of the College of Education

The student must first meet all requirements for graduate admission to UT Pan American (see Page 18). Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The student must complete additional admission requirements (if any) of the COE graduate program he/she wishes to pursue. Requirements for admission to certification/licensure programs in school counselor, educational diagnostician, principal, superintendent, reading specialist, master reading teacher, as well as licensed professional counselor and licensed specialist in school psychology are specifically outlined in the respective sections of this catalog.

Professional 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 following professional certificates: school counselor, educational diagnostician, principal, superintendent, and reading specialist. Students can also seek master reading teacher certification without pursuing a degree.

Candidates who already hold a master's degree may qualify for a professional certificate and are encouraged to seek certification in so far as it serves their educational and professional objectives. Contact the program adviser for required teaching experience and appropriate certificate.

An application for the professional certificate should be made in the Office of Teacher Certification and Admission Services, Room 1.302, in the Education Building Complex, when the requirements for certification are completed.



Curriculum and Instruction

Dr. James Curts,
Department Chair

Education Complex, Room 2.510
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3401 or 665-3402
Fax: (956) 665-2434
E-mail: jbcurts@utpa.edu

Graduate Faculty

Curts, James B., Associate Professor
DeLeon, Leticia, Assistant Professor
Diaz, Zulmaris, Assistant Professor
Esquierdo, Joy, Assistant Professor
Estrada, Veronica, Associate Professor
Farruggio, Peter, Assistant Professor
Garcia, Criselda, Assistant Professor
Gomez, Leonides, Professor
Guerrero, Michael, Associate Professor
McBride, John W., Professor
Medrano, Hilda, Professor
Murrillo, Luz, Assistant Professor
Osstorga, Alcione Negrao, Assistant Professor
Pena, Carmen, Associate Professor
Reyes, Maria Elena, Professor
Ruiz-Escalante, Jose Augustin, Professor
Sarmiento-Arribalzag, Matilde, Assistant Professor
Schall, Janine, Associate Professor
Tevis, Martha, Professor
Yanes, Martha Jeanne, Associate Professor

Graduate Programs

The Department of Curriculum and Instruction offers Master of Education degrees in early childhood, elementary education, elementary bilingual education, secondary education reading, as well as a master reading teacher certification program.

Master of Education Degree in Bilingual Education

The role of the bilingual/bicultural education specialist is that of a leader and master teacher in the field. Such a field includes knowledge, skills, and attitudes that are characterized by linguistic, cultural, and instructional dimensions. The M.Ed. degree with specialization in bilingual education provides an opportunity to develop such characteristics.

Requirements for Admission

To be admitted to the Master of Education in Bilingual Education program, the student must first meet all requirements for admission to the UT Pan American Graduate School (see Page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. The applicant must be a fully certified elementary or secondary teacher.
2. The applicant must submit at least two letters of recommendation from individuals in the position to judge the professional and academic potential of the applicant (submitted through the online application).
3. The applicant must submit a 250-word essay written in both English and Spanish demonstrating his/her interest in this master's program and goals upon its successful completion (submitted with the online application).

Master of Education Degree with Specialization in Bilingual Education

Option:	Thesis/Non-Thesis*
Certificate:	Provisional Bilingual

Core Curriculum

18 hours

EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDBE	6324	Second Language Teaching: Theory and Methodology
EDBE	6335	Bilingual Content Areas Across the Curriculum
EDBE	6350	The Bilingual Reading Process
EDBE	6351	Research on Language Development in Bilingual Environments
EDBE	6319	Practicum in Bilingual Education (completed last semester of program)

Educational Research/Measurement

6 hours

EDCI	6310	Research Methods in Education
EDCI	6304	Measurement and Evaluation

Specialization Area **15 hours**
(Select one area from courses listed below)

Reading Education

READ	6308	Foundations of Reading I
READ	6309	Foundations of Reading II
READ	6310	Children's and Adolescent Literature
READ	6323	Teaching the Struggling Reader++
READ	6329	Reading Assessment++

Early Childhood Education

EDEC	6380	The Young Child in a Multicultural Society
EDEC	6381	First and Second Language Development in Young Children
EDEC	6382	Literacy Development in Early Childhood Education, Ages 0-8
EDEC	6390	Internship in Early Childhood I: Curriculum and Models of Early Childhood Education++
EDEC	6391	Development and Administration of Early Childhood Programs++

Special Education*Required:*

EPSY	6300	Advanced Individual Differences
EPSY	6307	Legal Foundations of Special Education

Select 9 hours from the following:

EPSY	6303	Learning Disabilities++
EPSY	6315	Emotional Disturbance: Strategies, Curriculum, and Materials++
EPSY	6316	Reading Instruction Within the Context of Response to Intervention
EPSY	6318	Instructional Technology and Adaptive Assistive Devices for the Exceptional Learner

Educational Administration

EDUL	6333	Curriculum Development
EDUL	6334	Instructional Leadership
EDUL	6335	Leadership for Successful Schools++
EDUL	6385	Public School Law
EDUL	6392	School-Community Relations++

* If the thesis option is selected, students must complete the thesis sequence below instead of 6 hours from specialization area.

++Denotes courses to not complete if you select to write a thesis

ED	7300	Thesis I
ED	7301	Thesis II

TOTAL 39 hours

Master of Education in Early Childhood

Option: Non-Thesis
Certificate: Non-Certification

Early Childhood Core Courses **18 hours**

EDEC	6380	The Young Child in a Multicultural Society
EDEC	6381	First and Second Language Development in Young Children
EDEC	6382	Literacy Development in Early Childhood Education, Ages 0-8
EDEC	6390	Internship in Early Childhood I: Curriculum and Models of Early Childhood Education
EDEC	6391	Development and Administration of Early Childhood Programs
EDEC	6392	Internship in Early Childhood II: Ethics and Leadership in Early Childhood Education

Professional Development **9 hours***Required:*

EDCI	6310	Research Methods in Education
EDCI	6304	Measurement and Evaluation
		or
EPSY	6367	Introduction to Statistical Methods
PSY	6330	Developmental Psychology
		or
READ	6308	Foundations of Reading I

Resource Areas **9 hours***Select nine hours from the following:*

ENG	6321	Studies in Language and Culture
ENG	6345	Problems in Grammar, Dialects and Language Performance
ENG	6350	Introduction to Descriptive Linguistics for Teachers
SOCI	6350	Advanced Sociology of Education
READ	6309	Foundations of Reading II
READ	6310	Children's and Adolescent Literature
READ	6320	Integrating Writing in the Reading Classroom
READ	6323	Teaching the Struggling Reader
READ	6329	Reading Assessment
EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDBE	6324	Dual Language Enrichment Education
EDBE	6335	Bilingual Content Areas Across the Curriculum
EDBE	6350	The Bilingual Reading Process
EDBE	6351	Research on Language Development in Bilingual Environments

TOTAL 36 hours

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

ED	7300	Thesis
ED	7301	Thesis

NOTE: Students must complete the thesis sequence (ED 7300 and ED 7301) in place of two courses from the resource area listed as electives for the completion of the graduate program in early childhood education.

TOTAL 36 hours

Master of Education in Elementary Education

Requirements for Admission

To be admitted to the Master of Education in Elementary Education program, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 18), as well as submit the requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. Teaching certificate
2. Transcripts
3. A Résumé

The following is the program for the M.Ed. degree with specialization in elementary education:

Option One: Non-Thesis
Certificate: Non-Certification

Content Courses 6-9 hours

Select from the following:

EDCI	6305	Educational Curriculum
EDCI	6306	Special Projects
EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I
READ	6309	Foundations of Reading Instruction II
READ	6310	Children's and Adolescent Literature
READ	6323	Teaching the Struggling Reader
READ	6325	Practicum in Reading

Professional Development 12 hours

EDCI	6303	Philosophy of Education (required)
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Select 3 hours from the following (required):

EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Select 6 hours from the following (required):

EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI	6302	Multicultural Education
EDCI	6305	Educational Curriculum
EDEC	6380	The Young Child in a Multicultural Society
EDEC	6382	Literacy Development in Early Childhood Education, Ages 0-8
READ	6308	Foundation of Reading Instruction I

Resource Areas 6-9 hours

Select from the following:

EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Up to six hours of approved graduate courses may be taken as resource area courses.

Educational Research/Measurement 9 hours

EDCI	6308	Practicum for Teachers
EDCI	6310	Research Methods in Education
EDCI	6304	Measurement and Evaluation

TOTAL 36 hours

Option Two: Thesis
Certificate: Non-Certification

Content Courses 6-9 hours

Select from the following:

EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I
READ	6309	Foundations of Reading Instruction II

READ	6310	Children's and Adolescent Literature
READ	6323	Problems in the Teaching of Reading

Professional Development **6-12 hours**

Select from the following:

EDBE	6322	Bilingualism/Multiculturalism: Critical Issues and Practices
EDCI	6302	Multicultural Education
EDCI	6303	Philosophy of Education (required)
EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education
EDTC	6301	Instructional Technology
READ	6308	Foundations of Reading Instruction I

The student may substitute three to six hours from any approved graduate-level courses.

Thesis **9 hours**

ED	7300	Thesis
ED	7301	Thesis

Educational Research/Measurement **12 hours**

EDCI	6304	Measurement and Evaluation
EDCI	6305	Educational Curriculum
EDCI	6308	Practicum for Teachers
EDCI	6310	Research Methods in Education

TOTAL 36 hours

Option Three: Non-Thesis
Certificate: Non-Certification

Elementary Specialization Area (minor) **12 hours**

Twelve hours of graduate-level courses in one of the following fields or a combination of two fields selected in consultation with the graduate adviser of the department: Art, Biology, Communication, Educational Technology (EDTC), English, Health and Kinesiology, History, Mathematics, Mathematics Education (EDMA), French, Music, Physics, Political Science, READ, Science (SCIE), Spanish, Science Education (EDSC) and Theatre.

Professional Development **6-12 hours**

EDCI	6303	Philosophy of Education (required)
<i>Select 3 hours from the following (required):</i>		
EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Resource Areas **6-12 hours**

EDCI	6305	Educational Curriculum (required)
EDMA	6328	Mathematics in the School Curriculum
EDSC	6326	Science in the School Curriculum
READ	6308	Foundations of Reading Instruction I

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

Educational Research/Measurement **12 hours**

EDCI	6304	Measurement and Evaluation
EDCI	6307	Research, Issues and Trends in Education
EDCI	6308	Practicum for Teachers
EDCI	6310	Research Methods in Education (required)

TOTAL 36 hours

Master of Education in Reading

The purpose of the Master of Education in Reading program is to increase professional knowledge about reading and the teaching of reading, and to prepare professionals to assume responsible leadership positions as all-level reading specialists. The objectives of the program are to provide in-depth study of:

1. Theory, knowledge and research-based instructional practices in reading education.
2. Instructional design, delivery, and assessment in reading education for students with diverse backgrounds including those with reading difficulties or disabilities.
3. Effective communication, collaboration, and leadership skills and techniques.
4. Theory and knowledge of mentoring, coaching, and consultation in the development, implementation, and evaluation of effective reading programs.

Requirements for Admission

In addition to the University's graduate admission requirements, the admission requirements for the Master of Education in Reading program are as follows:

1. The applicant must have a 3.0 graduate admission GPA or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed.
2. The applicant must submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate.
3. The applicant must submit a writing sample (e.g., an essay or business letter that reflects the applicant's professional interest and/or professional goals in reading education).
4. The applicant must hold a valid teaching certificate

and have taught in a public or private school setting for a minimum of two years. Copies of teacher educator certificates and teacher service record(s) indicating two years of successful teaching must be submitted to the program director. This requirement is waived for applicants teaching in community college settings.

5. The applicant must submit GRE scores.
6. The applicant must have earned a minimum of 18 semester credit hours, or a minor, of coursework in reading or a reading-related field at the undergraduate level (e.g., English language arts, reading, English, bilingual education/ESL, special education or linguistics).

Master of Education in Reading

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

Reading Area		24 hours
READ 6308	Foundations of Reading I	
READ 6309	Foundations of Reading II	
READ 6310	Children's and Adolescent Literature	
READ 6313	Linguistics for Reading	
READ 6323	Teaching the Struggling Reader	
READ 6329	Reading Assessment	
READ 6325	Practicum in Reading Instruction	
READ 6351	Teaching Content Area Reading	

Resource Area

Select 6 hours from the following:

EDBE 6350	Bilingual Reading Process
EDBE 6351	Research on Language Development in Bilingual Environments
ENG 6325	Composition Techniques
READ 6320	Integrating Writing in the Reading Classroom

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

TOTAL 36 hours

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

Reading Area		24 hours
READ 6308	Foundations of Reading I	
READ 6309	Foundations of Reading II	
READ 6310	Children's and Adolescent Literature	
READ 6313	Linguistics for Reading	
READ 6323	Teaching the Struggling Reader	

READ 6329	Reading Assessment
READ 6325	Practicum in Reading Instruction
READ 6351	Teaching Content Area Reading

Resource Area		6 hours
ED 7300	Thesis	
ED 7301	Thesis	

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

TOTAL 36 hours

Master Reading Teacher Certification Program

The purpose of the Master of Education in Reading program is to increase professional knowledge about reading and the teaching of reading, and to prepare program completers to provide mentoring and professional development.

Requirements for Admission

In addition to the University's graduate admission requirements, the admission requirements for the Master of Education in Reading program are as follows:

1. The applicant must have a 3.0 graduate admission GPA or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours completed.
2. The applicant must submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate.
3. The applicant must submit a writing sample (e.g., an essay or business letter that reflects the applicant's professional interest and/or professional goals in reading education).
4. The applicant must hold a valid teaching certificate and have taught in a public or private school setting for a minimum of two years. Copies of teacher educator certificates and teacher service record(s) indicating two years of successful teaching must be submitted to the program director. This requirement is waived for applicants teaching in community college settings.
5. The applicant must have earned a minimum of 18 semester credit hours, or a minor, of coursework in reading or a reading-related field at the undergraduate level (e.g., English language arts, reading, English, bilingual education/ESL, special education or linguistics).

The following is the program for the Master Reading Teacher Certification:

Certificate: Master Reading Teacher Certificate

Required Coursework* 18 hours

READ	6308	Foundations of Reading I
READ	6309	Foundations of Reading II
READ	6313	Linguistics for Reading
READ	6323	Teaching the Struggling Reader
READ	6325	Practicum in Reading
EDBE	6351	Bilingual Language Development

*Once coursework is completed, students must pass the state of Texas certification exam in order to be certified as a Master Reading Teacher.

Master of Education in Secondary Education

Requirements for Admission

To be admitted to the Master of Education in Secondary Education program, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see Page 18), as well as submit the requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. Teaching certificate
2. Transcripts
3. A Résumé

The following is the program for the M.Ed. degree with specialization in secondary education:

Option One: Non-Thesis
Certificate: Non-Certification

Specialization Area 12-18 hours

Twelve to 18 hours of graduate-level courses in one or two of the following fields after consultation with the graduate adviser in the department: Art, Biology, Chemistry, Communication, Educational Technology (EDTC), English, French, Health and Kinesiology, History, Mathematics, Mathematics Education (EDMA), Music, Psychology, Physics, Political Science, READ, Science (SCIE), Science Education (EDSC), Spanish, and 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 9 hours

EDCI	6305	Educational Curriculum (required)
EDCI	6308	Practicum for Teachers (required)

Select three hours from the following (required):

EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in Instructional Technology
EDTC	6306	Special Topics: Projects in Instructional Technology

Resource Area 3-6 hours

Up to six hours from any graduate-level courses that provide background for the specialization area, or courses chosen to extend the applicant's preparation in a subject matter field other than his or her specialization, with consent of graduate adviser.

TOTAL 39 hours

Option Two: Thesis
Certificate: Non-Certification

Specialization Area 12 hours

Select 12 hours of graduate-level courses in consultation with the graduate adviser in the department from one or two of the following fields: Art, Biology, Chemistry, Communication, Educational Technology (EDTC), English, French, Health and Kinesiology, History, Mathematics, Mathematics Education (EDMA), Music, Psychology, Physics, Political Science, READ, Science (SCIE), Science Education (EDSC), Spanish, and 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 9 hours

EDCI	6305	Educational Curriculum (required)
EDCI	6308	Practicum for Teachers (required)

Select three hours from the following (required):

EDTC	6301	Instructional Technology
EDTC	6302	Internet and WWW for Teaching and Learning
EDTC	6303	Instructional Design
EDTC	6304	Multimedia Production
EDTC	6305	Research, Issues and Trends in

EDTC	6306	Instructional Technology Special Topics: Projects in Instructional Technology
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Thesis			6 hours
ED	7300	Thesis	
ED	7301	Thesis	

TOTAL 39 hours

Course Descriptions

A listing of graduate courses offered by the Department of Curriculum and Instruction can be found in the Course Descriptions section of this catalog beginning on Page 211.

Educational Psychology

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Interim Department Chair

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Graduate Faculty

Alvarado, Victor, Professor
Brickman, Stephanie, Associate Professor
Carlson, Ralph, Professor
Casebeer, Cindy, Assistant Professor
Castro, Veronica, Assistant Professor
Fielding, Cheryl, Associate Professor
Kranz, Peter, Associate Professor
Lowdermilk, John, Assistant Professor
Pecina, Julie, Instructor
Poelzer, Harold, Professor
Ramirez, Sylvia, Professor
Rodriguez-Escobar Olga, Assistant Professor
Sale, Paul, Professor
Saenz, Laura, Associate Professor
Shen, Jean, Assistant Professor
Silva, Santiago, Clinical Professor
Sparrow, Scott, Associate Professor
Wimberly, Cynthia, Assistant Professor

Overview of Graduate Programs

The Department of Educational Psychology offers the Master of Education in guidance and counseling, educational diagnostician, gifted education, special education, and the Master of Arts in school psychology.

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 and the United States. It is committed to providing the highest quality instruction, faculty development, student advisement, and educational services to the community and to research in various fields of endeavor.

Goals

The goals of the Department of Educational Psychology are all-inclusive and ambitious in their role to create fertile ground for the overall mission of the department. These goals include an ongoing effort:

- 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.
- To provide core studies for other graduate and undergraduate programs in the College of Education.
- To create and utilize research-based teaching practices to enhance the quality of instruction in higher education.
- To provide opportunities for the faculty and students to be engaged in scholarly research, particularly focusing on issues related to diverse populations.
- To provide systematic recruitment, retention and advisement to students.
- To provide services to local and regional educational agencies through consultation, technical assistance and evaluation.
- To encourage and foster student involvement and leadership in professional organizations and activities at the local, state, and national levels.
- To provide opportunities for the blending of theory and practice through University field-based programs.
- To develop state-of-the-art facilities, resources and technology for local and distance education.



Master of Education in Guidance and Counseling

Mission

The mission of the guidance and counseling program is to prepare highly competent professionals who can respond to the life-span mental health needs of a multicultural community. The Master of Education in Guidance and Counseling offers two plans of studies that prepare students for certification and/or national and state licensure.

Upon completion of the 48-hour School Counselor Certification Track the counselor is prepared to be an integral part of the academic services in public schools trained to facilitate the growth and learning of students by providing services in guidance curriculum, responsive services, individual planning and systems support. The counselor also provides direct services to students as a counselor and coordinates services with programs and agencies within the school and in the community.

Upon completion of the Licensed Professional Counselor Track, the counselor will have received instruction in the required professional content areas, and practicum hours to apply for national and/or state licensure. Upon licensure, the counselor is prepared to provide services across the lifespan in the areas of individual and group counseling in public, private, state and/or federal agencies.

Program of Studies

Course Sequence Requirements

School Counselor Certification Track: **48 hours**

- EPSY 6358 and EPSY 6370/6350 can be taken at any time, but preferably within the first 15 credit hours
- EPSY 6320, EPSY 6366, EPSY 6390, EPSY 6391, Individual Differences course requirement and Intervention course requirement can be taken at any time.
- EPSY 6361 and EPSY 6362 can be taken concurrently.
- In order to take EPSY 6363, you must have taken EPSY 6361 and EPSY 6362.
- In order to take EPSY 6364, you must have taken EPSY 6361, EPSY 6362 and EPSY 6363.
- In order to take EPSY 6365, you must have taken EPSY 6361, EPSY 6362, EPSY 6363 and EPSY 6364.
- In order to take EPSY 6367, you must have taken EPSY 6350 or EPSY 6370.
- In order to take EPSY 6368, you must have taken all but two course requirements

- In order to take EPSY 6369, you must have taken all but one course requirement

Foundation Courses

EPSY	6358	Introduction to Research
EPSY	6350	Introduction to Statistics
		or
EPSY	6370	Educational and Psychological Measurement*

* *Recommended.*

Required Sequence Courses

EPSY	6361	Organization and Management of Guidance and Counseling Programs
EPSY	6362	Personal/Social Development of the Counselor
EPSY	6363	Counseling Theories
EPSY	6364	Counseling Methods and Techniques
EPSY	6365	Group Counseling Techniques

Other Core Courses

EPSY	6366	Lifestyle and Career Development
EPSY	6367	Assessment of Counseling and Development *
EPSY	6390	Human Growth and Development
EPSY	6391	Counseling the Culturally Diverse
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies

* *Must have taken EPSY 6350 or 6370.*

Individual Differences Course Requirement

EPSY	6300	Advanced Individual Differences
		or
EPSY	6303	Learning Disabilities
		or
EPSY	6301	Advanced Studies in Psychopathology Intervention Course Intervention Course Requirement
EPSY	6322	Advanced Educational Psychology and Principles of Learning
		or
EPSY	6315	Strategies, Curricula and Material for Teaching the Seriously Emotionally Disturbed
		or
EPSY	6333	Counseling the Gifted and Talented
		or
EPSY	7352	Psychotherapy for Children (will include gifted information)

Culmination Courses

EPSY	6368	Counseling Practicum I
EPSY	6369	Counseling Practicum II

Requirements for application to the LPC Track after completion of School Counselor Certification Track

Recommended: 3.75 GPA

Recommended: Take the EPSY 6350 Introduction to Statistics during the School Counseling Certification Track

Recommended: Individual elective taken during the School Counselor Certification Track EPSY 6301 or EPSY 7352

Required classes:

EPSY	6393	Marriage and Family Counseling
EPSY	6395	Advanced Studies in Mental Disorders
EPSY	6396	Advanced Methods and Techniques or
EPSY	6394	Advanced Group Counseling
EPSY	6392	Counseling Practicum III

Total 60 hours

Professional Licensure Track: 60 hours

EPSY	6358	Introduction to Research
EPSY	6350	Introduction to Statistics (required)
EPSY	6360	Professional, Ethical and Legal issues in Counseling
EPSY	6362	Personal/Social Development of the Counselor
EPSY	6363	Counseling Theories
EPSY	6364	Counseling Methods and Techniques
EPSY	6365	Group Counseling Techniques
EPSY	6366	Lifestyle and Career Development
EPSY	6367	Assessment of Counseling and Development *
EPSY	6390	Human Growth and Development
EPSY	6391	Counseling the Culturally Diverse
EPSY	6393	Marriage and Family Counseling
EPSY	6394	Advanced Group Counseling
EPSY	6301	Psychopathology for Children and Adolescents
EPSY	7352	Psychotherapy for Children and Adolescents
EPSY	6395	Advanced Studies in Mental Disorders
EPSY	6368	Counseling Practicum I
EPSY	6369	Counseling Practicum II
EPSY	6396	Advanced Methods and Techniques
EPSY	6392	Counseling Practicum III

Requirements for Admission to the Master of Education in Guidance and Counseling

Admission to School Counselor Certification and LPC Track

A student must first meet all requirements for graduate admission to UT Pan American (see Page 18). Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Specific admission requirements for programs can be found on the online application for each of the degree programs. Once application materials are submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Applications are reviewed and accepted only during fall and spring semesters.

NOTE: A student must earn at least a B in every course with the exception of EPSY 6358, EPSY 6350 or EPSY 6370 in which a grade of C or better is required. In the event that a student does not meet the aforementioned requirements, the student must seek advisement to schedule the repeating of the course in which a C was received.

Appeal Process for Students Denied Admission

Students who are denied admission for any reason may appeal to the counselor education faculty in the following manner:

1. File a letter of appeal.
2. Provide an essay that details significant life events, with an emphasis on achievements and responsibilities that would indicate an ability to undertake graduate work and a probability for success in the field of counseling.
3. Complete an interview by a committee of counselor education faculty. The faculty may accept the appeal, deny the appeal, or accept the appeal with conditions (e.g., additional academic work, personal counseling, and/or similar experiences).

Exit Requirements

1. Completion of all course requirements in a planned program, with a minimum 3.0 GPA.
2. Satisfactory completion of a written comprehensive examination (to be taken during enrollment in EPSY 6368).

Master of Education Degree as an Educational Diagnostician

The educational diagnostician works within the special education department in public school systems and is the professional who is primarily responsible for conducting

and coordinating the initial full individual evaluation of students suspected of having a disability. Educational diagnosticians also conduct and coordinate re-evaluations of students currently receiving special education and related services. This program prepares the prospective educational diagnostician to conduct full individual evaluations and compose written reports.

Students in the program also are prepared to interpret the results of evaluation data to parents and other professionals; work with the multidisciplinary team to plan and incorporate appropriate teaching methods, materials and mastery level into the individual education plans of students with disabilities; assist public schools by possessing knowledge of compliance issues regarding federal and state laws, rules and regulations that affect students with disabilities; and understand the importance of the child-centered process in all aspects of education.

Requirements for Admission

1. Applicants must first meet all requirements for graduate admission to UT Pan American (see Page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Applicants must be a teacher certified in special education and must have at least two years teaching experience with one year of service working as a special education teacher.
3. Applicants must submit the following:
 - Application
 - Statement of purpose
 - Current teacher service record verifying a minimum of one year special education teaching experience and two years total teaching experience
 - Recent PDAS
 - Three letters of recommendation
 - Special Education Certification Examination Scores
 - Teacher Certification

Program admission is not based on any single criterion, multiple criteria are considered. Students who are denied admission for any reason may appeal to the faculty of the educational diagnostician program.

Degree/Certification Requirements

This is a 45-hour program that begins in the fall semester and requires approximately three years to complete. During the third year of the program, students are eligible and encouraged to work as an educational diagnostician within a local school district. Students are not permitted to take courses until they have been accepted to the program.

Courses with Prerequisites

EPSY	6370	Educational and Psychological Measurement
EPSY	6380	Introduction to Cognitive and Academic Assessment (Prerequisite EPSY 6370)
EPSY	6381	Advanced Cognitive and Academic Assessment (Prerequisite EPSY 6380)
EPSY	6382	Bilingual and Multicultural Assessment (Prerequisite EPSY 6381)
EPSY	7302	Practicum for Educational Diagnosticians (Prerequisite EPSY 6382)

The following courses may be taken in any sequence

EPSY	6300	Advanced Individual Differences
EPSY	6302	Psychology of Mental Retardation or
EPSY	6385	Autism Spectrum: Assessment and Program Planning
EPSY	6303	Learning Disabilities
EPSY	6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY	6307	Legal Foundations of Special Education
EPSY	6311	Applied Behavioral and Cognitive Therapies
EPSY	6316	Reading Instruction within the Context of Response to Intervention
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6322	Advanced Educational Psychology and Principles of Learning
EPSY	6358	Introduction to Research

The oral examination is part of EPSY 6380 and the written comprehensive final examination is part of EPSY 7302.

SBEC Standards

In keeping with the State Board of Educator Certification (SBEC) Standards for Educational Diagnosticians (Texas Administrative code, Title 19, Part 7, Chapter 239, Subchapter C, Rule §239.83), courses in this program address the following areas:

1. Purpose, philosophy, and legal foundation of evaluation and special education.
2. Ethical and professional practices, roles and responsibilities.
3. Collaborative relationships with families, educators, school, community, outside agencies and related service personnel.
4. Student assessment and evaluation, program planning, and instructional decision making.
5. Eligibility criteria and procedures for identifying

- students with disabilities and determining the presence of an educational need.
6. Selection, administration, and interpretation of appropriate formal and informal assessments and evaluations.
 7. Ethnic, linguistic, cultural, and socioeconomic diversity and the significance of student diversity for evaluation, planning and instruction.
 8. Scheduling, time management, and organization.
 9. Addressing behavioral and social interaction skills of students through appropriate assessment, evaluation, planning and instructional strategies.
 10. Curricula and instructional strategies for individuals with disabilities.

Master of Arts Degree in School Psychology

The purpose of the 69-hour master’s degree program in school psychology is to prepare school psychologists for those schools and agencies that provide treatment and educational programs in a society that is linguistically, socioeconomically and socioculturally pluralistic. The thrust of the program will be for students to develop and acquire the knowledge necessary to conduct applied and basic research, psychological and educational assessment for intervention, cognitive-behavioral-psychodynamic psychotherapy, and interdisciplinary consultation with teachers, administrators, parents and community agencies. Additional credit hours are required to be eligible for state licensure.

School psychologists will be educated to be consultants to other professionals such as counselors, teachers and administrators; provide psychological and educational diagnosis and assessment; provide direct psychotherapy and cognitive-behavioral intervention; and provide research and evaluation services to school districts and agencies.

Degree recipients will receive preparation for the following credential(s):

1. Licensed Specialist School Psychologist (LSSP) by the Texas State Board of Examiners of Psychologists.
2. National Certification as a School Psychologist by the National Association of School Psychologists. (Students seeking the certification must consult with their adviser concerning National Association School Psychologists (NASP) requirements.)

Requirements for Admission

In order to be admitted to the program, the student must meet all requirements for graduate admission to UT Pan American (see Page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. The applicant must have a 3.0 GPA or more on a 4.0 scale in the last 60 semester hours or 90-quarter hours completed.
2. The applicant must submit official GRE general test scores.
3. The applicant must submit at least three letters of recommendation from persons in a position to judge the professional and academic potential of the candidate. At least one of the letters should be from a university college professor in the student’s major area of study.
4. The applicant must submit a letter of application with a statement of reasons (500-word minimum) for pursuing a master’s degree in school psychology to the coordinator for the school psychology program.
5. Bachelor’s or master’s degree in a field related to school psychology (psychology, education, rehabilitation counseling, or social work is preferred, but not required).

Program admission is not based on any single criterion, multiple criteria are considered.

Degree Requirements

The degree of Master of Arts in School Psychology provides a 69-hour non-thesis program. The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his or her graduate adviser.

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 grades of C (or lower). However, upon earning a third C (or lower), he/she will be terminated from the program in school psychology.
3. A student must repeat a course in which a grade of C (or lower) is earned. The second grade earned in a course does not delete the first grade and thus does not alter the rules described in number two above.

Curriculum

Required Courses		63 hours
EPSY	6300	Advanced Individual Differences
EPSY	6301	Psychopathology of Children and Adolescents
EPSY	6310	Ethical and Legal Issues in the Role of the School Psychologist
EPSY	6311	Applied Behavioral Analysis and Cognitive Therapy
EPSY	6312	Consultation
EPSY	6315	Emotional Disturbance: Strategies, Curricula and Materials
EPSY	6350	Introduction to Statistics

EPSY	6358	Introduction to Research
EPSY	6370	Educational and Psychological Measurement
EPSY	6380	Introduction to Cognitive and Academic Assessment
EPSY	6381	Advanced Cognitive and Academic Assessment
EPSY	6382	Bilingual and Multicultural Assessment
EPSY	6383	Personality Assessment of Childhood
EPSY	7308	Child Therapy and Adolescent Practicum
EPSY	7350	Internship I
EPSY	7351	Internship II
EPSY	7352	Psychotherapy for Children and Adolescents
PSY	6320	Current Perspectives in Physiological Psychology
PSY	6325	Theoretical Issues in Learning
PSY	6330	Advanced Studies in Child Development
SOCI	6350	Advanced Sociology of Education

Directed Electives**6 hours***Choose 1 of the following:*

EDUL	6384	Introduction to Educational Administration
EPSY	6316	Reading Instruction within the Context of Response to Intervention

Choose 1 of the following:

EPSY	6351	Intermediate Statistics
EPSY	6356	Research Methods In Single Subject Design
EPSY	7310	Advanced School Psychology Research Project

Total Hours **69****Master of Education Degree in Special Education**

The Master of Education in Special Education is a 39-hour program.

Application to the Program

In order to be admitted to the Master of Education in special education program, the student must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 18). Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications

online or by contacting the Graduate Office.

2. Have a bachelor's degree from an accredited university in Special Education or in another appropriate field of study. Leveling courses may be required and would be determined by the department.
3. Have a 3.0 GPA or more on a 4.0 scale in the last 60 semester hours or 90 quarter hours or 2.5 GPA for all coursework.

Applicants must submit the following documents online:

- a. Official transcripts
- b. Statement of purpose detailing reasons for pursuing the graduate degree and outlining professional goals.
- c. Three letters of recommendation from academic and/ or professional sources that can judge the professional and academic potential of the candidate.
- d. A résumé.

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

Degree Requirements

Students must maintain a 3.0 GPA overall in all required courses.

Students starting this program without any background in special education may be required to take the graduate Advanced Individual Difference course in the educational psychology department. This course does not count toward the required 39 hours.

Required Courses

EPSY	6301	Psychopathology for Children and Adolescents
EPSY	6302	Psychology of Mental Retardation
EPSY	6303	Learning Disabilities
EPSY	6304	Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues
EPSY	6307	Special Education Law
EPSY	6311	Applied Behavioral Analysis and Cognitive Therapies
EPSY	6315	Emotional Disturbances: Strategies, Curricula and Materials
EPSY	6316	Reading Instruction within the Context of Response to Intervention
EPSY	6318	Instructional Technology and Adaptive Assistive Devices for the Exceptional Individual
EPSY	6320	Consultation and Collaboration with Parents, Professionals and Agencies
EPSY	6358	Introduction to Research

EPSY	6385	Autism Spectrum: Assessment and Program Planning
EPSY	6350	Introduction to Statistics or
EPSY	6352	Multivariate Analysis or
EPSY	6356	Research Methods in Single-Subject Design or
EPSY	6370	Educational and Psychological Measurement

Total hours 39 hours

Health and Kinesiology

Dr. Paul Villas,

Department Chair

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Myers, Deborah, Assistant Professor
Oh, Jung-il, Assistant Professor
Villas, Paul, Professor
Wang, Lin, Assistant Professor

Graduate Program

The Department of Health and Kinesiology offers a Master of Science in Kinesiology. Courses can be taken in the traditional face-to-face [F2F] classroom at UTPA, or you can select UTPA as your Home Campus for the online MS degree in kinesiology. Students may select either the thesis or non-thesis routes, both are 36-hour programs. The choice of courses in the major and minor fields, as well as the nature of the supporting work, will be determined through consultation between the student and his or her graduate adviser, who is selected by the student and graduate program coordinator.

Four of The University of Texas System universities have collaborated to offer a web-based master's degree in kinesiology. UTPA is part of the collaborative and is one of the degree-granting institutions. For more information, visit the kinesiology website at the UT Online Consortium (UTOC) at www.utcoursesonline.org or contact Dr. Layne Jorgensen at lj85f0@utpa.edu for the traditional program or Dr. Deborah Myers at deblmyers@utpa.edu for the online program.

The Department of Health and Kinesiology uses the University's entrance requirements for graduate student admission. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The department requires a GPA of 2.75 or higher cumulatively on undergraduate work. In addition, students must provide proof of:

1. Having an undergraduate degree in kinesiology or a related field to be determined by the graduate coordinator. Students not meeting this requirement must complete up to 18 hours of leveling work prior to beginning graduate studies. The graduate coordinator will determine the courses to be taken.
2. Taking the GRE (traditional program only).
3. Submitting three letters of recommendation (traditional program only).
4. Submitting official transcripts of all undergraduate work.

Master of Science Degree in Kinesiology

Major: Kinesiology

Whether you take courses in the traditional face-to-face classroom (KIN courses) at UTPA or you select UTPA as your Home Campus for the online (KINO courses) MS in kinesiology, the requirements are the same. You must complete 36 hours of coursework, which includes the 12-semester hour core required by UTPA.

Traditional (and Online) Courses

Required **12 hours**

All students must complete the following four core courses for the MS degree in kinesiology at UTPA:

KIN	6301	(KINO 6340) History and Philosophy of Kinesiology (History and Philosophy)
KIN	6302	(KINO 6372) Methods of Research in Kinesiology (Research Methods)
KIN	6303	(KINO 6370) Applied Tests and Measurements in Kinesiology (Introduction to Statistics)

KIN 6304 (KINO 6310)
Scientific Foundations
of Kinesiology
(Exercise Physiology)

Traditional Elective Courses 12-24 hours

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

KIN 5313 Workshop in Kinesiology
KIN 5351 Kinesiology Curriculum for the
Handicapped Student
KIN 5357 Health Seminar
KIN 6305 Curriculum Construction
in Kinesiology
KIN 6306 Planning and Use of Facilities
for Kinesiology
KIN 6307 Psychology of Motor Learning
KIN 6308 Current Readings in Kinesiology
KIN 6310 Organization and Administration of
Sport Programs
KIN 6311 Legal Issues in Sport
KIN 6312 Governing Agencies for Sport
KIN 6313 Ethics in Sport
KIN 6319 Internship in Sport
KIN 6320 Independent Research
KIN 6321 Kinesiology Internship
KIN 6330 Issues in Adapted Physical Activity
KIN 6331 Including Students with
Disabilities in Regular
Physical Education
KIN 6332 Special Techniques of Motor
Assessment for Individuals with
with Disabilities
KIN 6333 Adapted Sports and Activities
for Individuals with Disabilities
KIN 335 Determinants and Perspectives of
Health and Illness
KIN 6340 Advanced Biomechanics
KIN 6350 Sport and Exercise Psychology
KIN 7300 Thesis
KIN 7301 Thesis

Traditional Resource Area 0-12 hours

With the approval of the graduate program coordinator, the student can select 0-12 hours of graduate-level courses in a related discipline to complete the degree requirements, in the traditional program.

Online Elective Courses: 24 hours

With graduate faculty adviser approval, 24 hours of electives and/or interest areas must be selected from the online courses. If you plan to take both online and traditional delivery courses, you must still have graduate faculty adviser approval from each program coordinator.

KINO 6312 Training and Conditioning Methods
KINO 6316 Applied Biomechanics
KINO 6320 Sport Psychology
KINO 6322 Applied Sport Psychology
KINO 6323 Exercise Psychology

KINO 6326 Motor Learning and Control
KINO 6330 Sport and Society
KINO 6342 Ethics in Health and Kinesiology
KINO 6346 Contemporary Issues in Physical
Education and Sport
KINO 6350 Curricular Innovations
KINO 6352 Analysis of Teaching and Coaching
KINO 6354 Early Childhood Physical Activity
KINO 6356 Issues in Adapted Physical Activity
KINO 6360 Administration of Physical
Education and Athletic Programs

TOTAL (Traditional and Online) 36 hours

Thesis Option

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

NOTE: Obtaining a Master of Science with a major in kinesiology usually requires a minimum of two years as a full-time student. Prospective master's candidates should realize that the required courses in the traditional program cycle every two years and that missing a course may delay their graduation. Check with the online program to determine if the needed course is available. Once the program is begun, the candidate has seven years to complete the requirements.

Graduate Online Adviser

Please consult with the graduate online faculty adviser to determine the best coursework in which to enroll to achieve your goals and objectives. By viewing the entire course offerings, you can see that there are several tracks or interest areas you may pursue. By clicking on "Course List," you may view each telecampus course description.

Course Descriptions

A listing of traditional graduate courses offered by the Department of Health and Kinesiology can be found in the Course Descriptions section of this catalog on Page 236. A listing of the online graduate courses offered by the UT Online Consortium (UTOC) can be found at www.utcoursesonline.org/programs/programinfo/kino/index.html.

Educational Leadership

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Pankake, Anita, Professor
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Salinas, Alejo, Lecturer
Simonsson, Marie, Associate Professor
Watt, Karen, Professor

General Overview

The Department of Educational Leadership offers a Doctor of Education (Ed.D.) in Educational Leadership, a Master of Education (M.Ed.) in School Administration, a Principal's Credential Program, and a Superintendent's Credential Program.

All students pursuing a M.Ed. degree or a credential program in the Department of Educational Leadership must meet University, College of Education and department graduate admission requirements, successfully pass all course requirements, and pass a comprehensive written examination at the end of the program. The faculty will act as an admission committee, reviewing each applicant's file.



Master's Degree and Credential Programs

Master in Educational Administration

Specific Degree Requirements

Student must first meet all requirements for graduate admission to UT Pan American (see Page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Admission to the Master of Education Program

Students interested in a Master of Education degree in Educational Administration must have a bachelor's degree. To be admitted, students must complete the following requirements:

Program Admission Requirements

1. Apply online through the Graduate Studies website and submit the following:
 - a. A letter of intent with the online application explaining why they are interested in pursuing a master's degree in educational administration
 - b. A résumé/vita.
 - c. A photocopy of your current teacher certificate.
2. Submit official transcripts of all undergraduate and \ graduate coursework.
3. Complete an onsite writing exercise:
 - a. Read and reflect on one of the articles as part of your preparation for the writing exercise. Check the department website for the articles.
 - b. Report to the campus on one of the designated dates for the writing exercise. Check the department website for the dates. (Meet at EDCC 3.226. The writing exercise will begin at 5 p.m.)
 - c. See the writing rubric for guidance on how to approach the writing assignment.

Program Description

The Master of Education Educational Administration consists of 36 graduate credit hours.

The following courses need to be completed to earn a M.Ed. degree:

Master of Education

Major: Educational Administration

Option: Thesis/Non-Thesis

Program Coursework		36 hours
EDUL	6300	Introduction to Research and Evaluation
EDUL	6333	Curriculum Development
EDUL	6334	Instructional Leadership
EDUL	6335	Leadership for Successful Schools
EDUL	6338	School Principalship
EDUL	6339	Organizational Leadership
EDUL	6370	Supervision of Instruction
EDUL	6385	Public School Law
EDUL	6388	Sociocultural Foundations of Education
EDUL	6389	Administration and Organization of School Business Services
EDUL	6392	School-Community Relations
EDUL	6398	Internship in Principalship

Thesis 6 hours

If the thesis option is selected, students substitute two master's courses for two thesis courses (EDUL 7300, and EDUL 7301).

Students may apply for the TExES after completing the core courses **.

Students must schedule their master's written comprehensive exam during the last semester of coursework, and apply for graduation at the Graduate Office 6-8 months prior to graduating.

Students may substitute two courses for two thesis courses (EDUL 7300 and 7301).

The students will meet with their adviser to determine which courses to substitute.

Principal's Credential

The courses for the principal certification are embedded in the coursework for the master's degree. Students are eligible to take the TExES exam once they complete the first six courses.

Admission

To get the principal certification, students must submit the following to the Teacher Certification and Admission Services, EDCC, Room 143.2:

1. Photocopy of a current teacher certificate
2. Photocopy of the teacher service record
3. Degree plan
4. Log hours

Students who have a master's degree in a related area, such as bilingual education, reading counseling, or other related areas are also eligible to apply for the Principal's Credential Program. Students interested in being admitted to the program must apply through the UTPA Graduate Studies website and submit all documentation to the department by a specific date (check website). Students will be notified by a specific date if admitted.

The Principal's Credential Program consists of five courses and an internship. There are two options to acquire the principal's credential. Each option has its set of criteria:

Option 1

In the Principal's Credential Program, the five courses and the internship are taken in the traditional setting either in the fall or spring semester.

For the Principal's Credential Program, students must have a graduate 3.0 GPA or above and have completed two years of teaching experience to be considered. In addition to the online application, students must submit:

1. Three artifacts of demonstrated leadership during the past two years.
2. Photocopy of a current teacher certificate
3. Photocopy of the teacher service record

(These items are to be submitted to the department office in Room 1.514.)

Note: Applicants will be interviewed in May for the fall semester

Option 2

In the Accelerated Summer Principal's Credential Program, the five courses are taken in the summer over five weeks and the internship is taken the following fall or spring semester. Each course meets every day, Monday-Friday from 8 a.m.-5 p.m.

For the Accelerated Summer Principal's Credential Program (the five courses are taken in the summer over five weeks and the internship is taken in the fall or spring semester), students must have a graduate 3.5 GPA or above and must also have at least five years of teaching experience and/or a combined professional experience in public schools to be considered. In addition to the online application, students must submit:

1. Three artifacts of demonstrated leadership during the past two years.
2. Photocopy of a current teacher certificate
3. Photocopy of the teacher service record showing five years teaching experience
4. A letter from a supervisor/principal indicating the applicant has potential for participating in the intensive summer program (only for summer program).

(These items are to be submitted to the department office in Room 1.514.)

Program Description

Students who have a master's degree in another area will take the following required courses for the principal's credential:

EDUL	6330	Principles of Public School Leadership **
EDUL	6331	Curriculum and Instructional Leadership **
EDUL	6332	Instructional Support Programs and the Law **
EDUL	6338	The School Principalship **
EDUL	6393	Administration of School Staff Personnel **
EDUL	6398	Internship for Principalship

** Core Courses

Students will receive information regarding registration for the TExES and application for certification while enrolled in the internship.

Summer Programs

The department offers an Accelerated Program for the Principal's Credential in the summer. The required five courses listed above (EDUL 6330, 6331, 6332, 6338, 6393) are offered as five one-week courses during the month of July. The courses are rigorous and very intensive. The internship course (EDUL6398) is to be taken in the following fall or spring semester. Students wishing to apply for this summer accelerated program must also submit a letter from a supervisor/principal, noting that the student is an applicant for the accelerated program and has potential for success in the intensive summer program.

The department will offer a full complement of day and night courses during the summer terms.

Please Note: The Department of Educational Leadership does not follow the same summer schedule as the University. Typically Summer I begins on or about June 1 and ends on or about June 30. Summer II begins on or about July 1 and ends on or about July 31. Check with the department on dates for the next summer. A miniterm may be offered the last two weeks in May. Check with the department office for the schedule.

Degree Credential Requirements: Educational Leadership

The educational leadership program is designed to produce change-oriented administrators who are competent in such areas as administrative leadership, school organization and management, school law, finance, contemporary personnel practices, and instructional leadership.

The Department of Educational Leadership offers a 36-hour M.Ed. program and a 63-hour Ed.D. degree. A maximum of nine semester hours of relevant coursework may be transferred to the doctoral program and applied to the degree plan. No course with grade lower than B may be transferred. See the section on the doctoral program in this catalog for further information.

Principal's Credential Program for Students with a Master's Degree in a Related Discipline

Once a student completes the Master of Education degree, the credential for the principalship requires additional hours. Below are the courses required if a student has a master's degree in a field other than educational leadership or school administration. After the courses and internship requirements are completed, the student must pass the state principal's credential exam (TExES).

EDUL	6330	Principles of Public School Leadership
EDUL	6331	Curriculum and Instructional Leadership
EDUL	6332	Instructional Support Programs and the Law
EDUL	6338	The School Principal
EDUL	6393	Administration of School Staff Personnel
EDUL	6398	Internship in Principalship

Superintendent Credential Program

The principal's credential is required for entrance to the superintendent credential program. The student must then complete the 15 credit hours as outlined below. After the course and internship requirements are completed, the student must pass the state's credential exam (TExES).

Superintendent's Credential		15 hours
EDUL	7312	Social-Political Problems and the Superintendency
EDUL	7314	The Superintendency
EDUL	7315	Texas School Finance and Facilities Administration
EDUL	7316	Ethics and Decision-Making in the Superintendency
EDUL	7319	Internship for the Superintendency

Course Descriptions

A listing of graduate courses offered by the Department of Educational Leadership can be found in the Course Descriptions section of this catalog beginning on Page 213.

Doctoral Program in Educational Leadership

The Doctor of Education (Ed.D.) degree awarded at The University of Texas-Pan American was chartered by the Texas Higher Education Coordinating Board in 1998 and positioned in the Department of Educational Leadership. The mission of the program is to improve educational and economic opportunities for the people of South Texas and the Rio Grande Valley.

Degree Program

The Doctor of Education degree emphasizes preparation for leadership careers in a variety of settings in the field of education. The program trains individuals to apply research and theory to practical problems. It enhances student's management skills that assist them to exhibit informed leadership. The dissertation is expected to inform policy or practice toward 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, higher education institution, county, regional, state and national levels, with emphasis on leadership skills required to educate minorities, particularly Hispanics.
3. To provide deeper understanding of the legal, financial and operational demands on the professional educator, as well as adequate historical and contemporary contexts that influence their role.
4. To provide an understanding of the theories and research methodologies that illuminate the significant role of the professional education practitioner.
5. To provide professional educators with problem solving and applied research skills.
6. To offer access to a doctoral-level program in educational leadership to all Rio Grande Valley citizens who have the qualifications and motivation to pursue it.
7. To assist in the formation of professionals who will serve in administrative and policy positions in order to enhance the educational and economic opportunities of persons who need the most development of their human potential.
8. To provide uniquely qualified leadership, teaching and research skills required to meet the special needs of the culturally diverse student population in this area.

Admission to the Ed.D. Program

To be considered for admission, the student must first meet all requirements for graduate admission to UT - Pan American (see Page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

The student must submit with the online application three letters of recommendation, a writing sample, and a curriculum vita. Official transcripts from all colleges and universities attended will be filed with the UTPA Graduate Office. The student, upon admission to the program, becomes a member of a doctoral cohort.

Standards for admission to the educational leadership program are based on multiple sources of evidence of an applicant's qualifications and are comparable to those for doctoral programs in other disciplines and for educational leadership programs in other universities.

Criteria for admission to the program include:

- Hold a master's degree in educational leadership or related field.
- Five years of full-time administration or teaching experience.
- GPA of 3.0 on graduate coursework.
- Evidence of strong personal and professional qualities with potential for leadership.
- Demonstrated writing ability in English.
- Complete an electronic application through the Graduate Office
- Submit a completed application packet to the Doctoral Program Office (available at <http://www.utpa.edu/programs/eldp>).

If selected as a finalist, participate in the doctoral applicant assessment center as part of the selection process.

Commit to fulfilling four years in doctoral coursework and willing to complete a dissertation.

Admission will be considered for applicants who do not meet the customary GPA or other requirements but whose credentials indicate a good probability of success in doctoral study.



Degree Requirements

A minimum of 63 semester hours of post-master's degree coursework, plus six semester hours of dissertation are required for the Ed.D. degree at UTPA. Courses at the 6000, 7000 and 8000 level may be applied toward the degree. The majority of the coursework will be at the 8000 level. The degree plan will be structured as follows:

Semester Credit Hours

Research courses	9-12 hours
Core, Major courses	27 hours
Resource, Field-based courses	12-15 hours
Internship	3 hours
Electives	9-12 hours
Dissertation	6 hours

A maximum of nine semester hours of relevant coursework may be transferred to the doctoral program and applied to the degree plan. No course with a grade lower than a B may be transferred.

In addition to these requirements, courses are offered at UTPA in a variety of fields which may be related to the doctoral student's particular area of interest. Many graduate courses currently in UTPA's inventory may be used as supporting work. Students may choose from among those courses with the advice from their adviser in order to support their career and research goals.

Maximum Period for Completion

A student has a maximum of 10 years from the date of first entry into doctoral-level courses to complete the degree. Under special circumstances, an extension for an additional year may be granted.

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 program:

Courses: EDUL 8301, EDUL 8302, EDUL 8303, EDUL 8304, EDUL 8305, EDUL 8306, EDUL 8307, EDUL 8308, 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 8340, EDUL 8341, EDUL 8342, EDUL 8343, EDUL 8344, EDUL 8350, EDUL 8351, EDUL 8353, EDUL 8381. Dissertation Research: EDUL 8190, EDUL 8390, and EDUL 8690. Dissertation Writing: EDUL 8195, EDUL 8395, and EDUL 8695.

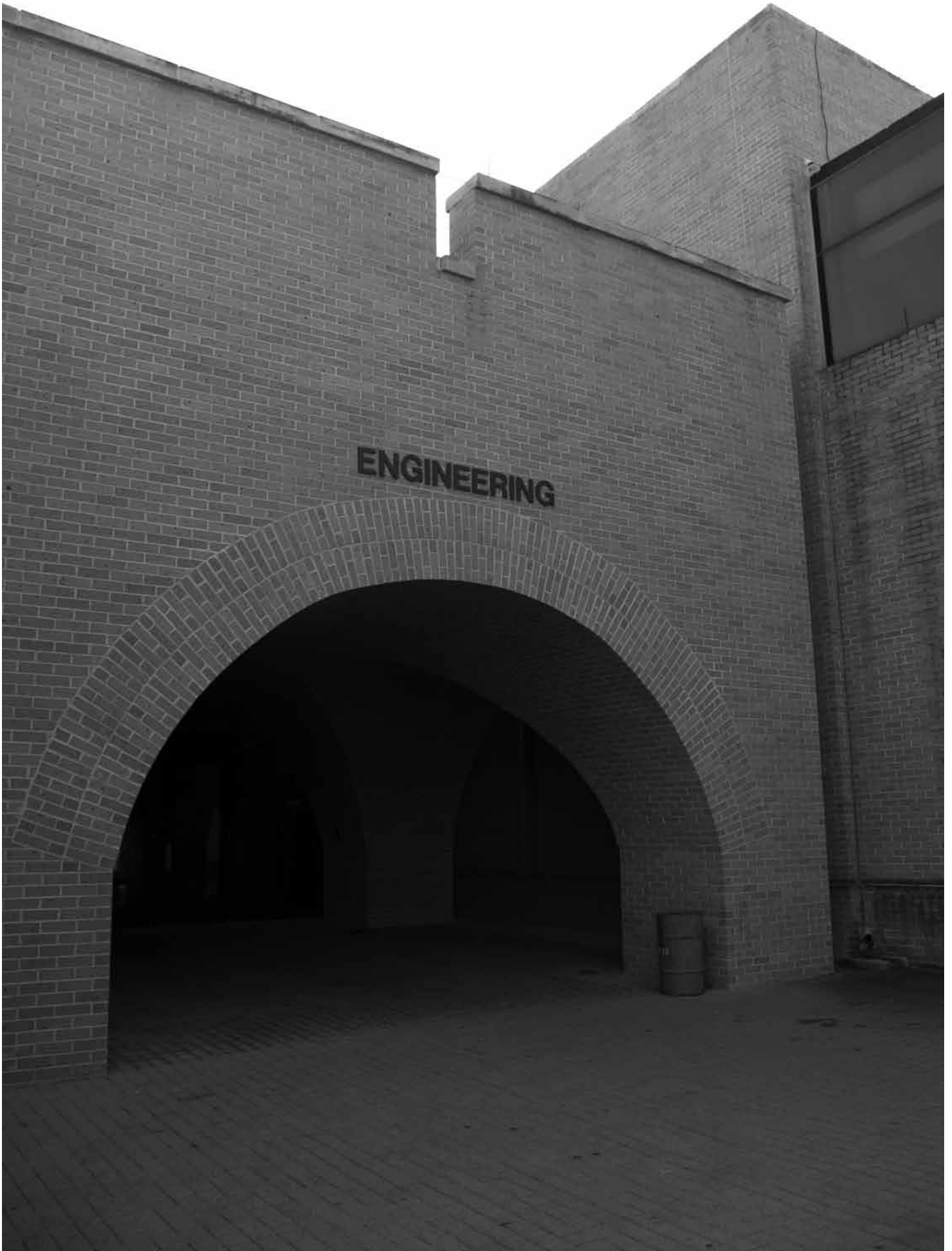
For further information and to obtain application materials, contact:

The University of Texas-Pan American
 Director, Educational Leadership Doctoral Program
 College of Education
 1201 W. University Drive
 Edinburg, TX 78539-2999
 Telephone: (956) 665-7173
 Fax: (956) 665-2941
 Web: www.utpa.edu/programs/eldp

Course Descriptions

A listing of doctoral courses offered by the College of Education can be found in the Course Descriptions section of this catalog beginning on Page 213 or 216.





COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

General Overview

The College of Engineering and Computer Science is one of the fastest growing colleges at UT Pan American that aspires to produce the technological leaders of tomorrow and further the knowledge and practice of the engineering and computer science professions nationally and internationally.

Our goal is to provide our undergraduate and graduate students with the best possible education in a stimulating research-oriented and intellectually diverse environment. Our students participate in research and are taught by faculty, who are considered some of the best and brightest in their fields. We provide high quality and innovative curricula that prepare our students to be effective, contributing members of a technological society and lifelong learners.

The college is comprised of the Departments of Computer Science, Electrical Engineering, Manufacturing Engineering, and Mechanical Engineering. All four departments share the Engineering Building that contains more than \$10 million of state-of-the-art teaching and research equipment.

Academic Programs

The College of Engineering and Computer Science offers the Master of Science in computer science, electrical engineering, engineering management, information technology, manufacturing engineering, and mechanical engineering. The college also offers the Bachelor of Science in civil engineering, computer engineering, computer science, electrical engineering, manufacturing engineering, and mechanical engineering. Students may minor in computer science, electrical engineering, manufacturing engineering, and mechanical engineering.



Dr. David H. Allen, Dean

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Computer Science

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Graduate Faculty

Abraham, John P., Professor
Brazier, Pearl P., Professor
Chebotko, Artem, Assistant Professor
Chen, Zhixiang, Professor
Figueroa-Lozano, Andres, Associate Professor
Fowler, Richard H., Professor
Fu, Bin, Associate Professor
Grabowski, Laura M., Assistant Professor
Lawrence-Fowler, Wendy A., Professor
Liu, Yang, Assistant Professor
Patitz, Matthew J., Assistant Professor
Reilly, Christine F., Assistant Professor
Schweller, Robert, Assistant Professor
Tomai, Emmett, Assistant Professor

Introduction

The Department of Computer Science offers two degrees – Master of Science in Computer Science and Master of Science in Information Technology. The degrees prepare students for positions in industry and education, enhance skills for the practicing professional and supply a foundation for study at the doctoral level. Students with a bachelor's degree in any field may enter either program. The programs provide a broad foundation of study in computer science, as well as offer in-depth study in the areas of algorithms, bioinformatics, databases, data mining, information

retrieval, networks, artificial intelligence, computer graphics, information visualization, and software engineering. For both degrees, a core of computer science courses is required combined 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

The student must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

A GPA of 3.0 or higher on a 4.0 scale for the last 60 semester hours, or 90 quarter hours, of undergraduate courses completed.

For foreign national applicants whose primary language is not English, a score on the TOEFL of 500

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 and for those students, a sequence of courses preparing them for graduate studies will be prescribed.

Degree Requirements

Master of Science in Computer Science students complete 36 semester hours, including 12 semester hours of required computer science lecture and seminar courses with a grade of B or higher, 12 or more semester hours of computer science prescribed elective courses, and a master's thesis or project. Students may also complete up to six hours of other computer science courses. For the project option, a final written examination is required.

Required Computer Science

Lecture and Seminar Courses 12 hours

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

CSCI	6323	Design and Analysis of Algorithms
CSCI	6335	Advanced Computer Architecture
CSCI	6339	Theoretical Foundations of Computation

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

Computer Science Prescribed

Elective Courses 12 or more hours

CSCI	6333	Advanced Database Design and Implementation
CSCI	6334	Advanced Operating Systems
CSCI	6336	Programming Languages and Compilers
CSCI	6340	Advanced Software Engineering
CSCI	6345	Advanced Computer Networks
CSCI	6350	Advanced Artificial Intelligence
CSCI	6354	Performance Evaluation
CSCI	6355	Bioinformatics
CSCI	6356	Parallel Computing
CSCI	6360	Advanced Computer Graphics
CSCI	6361	Computer Visualization
CSCI	6363	Human Computer Interaction
CSCI	6365	Network Management and Security
CSCI	6366	Data Mining and Warehousing
CSCI	6370	Topics in Computer Science

Other Computer Science Elective Courses*

6 hours or less for project option, 3 hours or less for thesis option

CSCI	6305	Foundation of Algorithms, Data Structures and Programming Languages
CSCI	6307	Foundations of Systems
CSCI	6312	Advanced Internet Programming
CSCI	6314	E-Commerce Systems and Implementation

*CSCI 6302 may not be counted toward the degree

Required Computer Science Project and Thesis Courses

(3 hours for project option, 9 hours for thesis option):

Project Option:

CSCI	6390	Master's Project I
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Thesis Option:

CSCI	6381	Independent Research and Study
CSCI	7300	Thesis (6 hours required)

Master of Science in Information Technology

Students complete 36 semester hours, including 19 semester hours of required computer science lecture and seminar courses with a grade B or higher, 11 or more semester hours of prescribed elective courses, and a master's project. Students complete up to three hours of other elective courses in computer science. A final written examination is required.

Required Computer Science

Lecture and Seminar Courses 19 hours

CSCI	6174	Open Problems in Computer Science
CSCI	6302	Foundations of Software and Programming Systems for Information Technology
CSCI	6303	Principles of Information Technology Systems
CSCI	6305	Foundations of Algorithms, Data Structures and Programming Languages
CSCI	6314	E-Commerce Systems and Implementation
CSCI	6315	Applied Database Systems**
CSCI	6333	Advanced Database Design and Implementation**
CSCI	6345	Advanced Computer Networks

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

***Only one of CSCI 6315 and CSCI 6333 may be counted toward the degree*

Prescribed Elective Courses 11 or more hours

CSCI	6175	Seminar in Computer Science
CSCI	6307	Foundation of Systems
CSCI	6312	Advanced Internet Programming
CSCI	6316	Design for Information Technology Systems
CSCI	6318	Cyber Security and Forensics
CSCI	6340	Advanced Software Engineering
CSCI	6350	Advanced Artificial Intelligence
CSCI	6355	Bioinformatics
CSCI	6360	Advanced Computer Graphics
CSCI	6361	Computer Visualization
CSCI	6363	Human Computer Interaction
CSCI	6365	Network Management and Security
CSCI	6366	Data Mining and Warehousing

May be repeated once as topics vary

Other Elective Courses 3 hours or less

Students may complete up to three hours of courses in computer science.

Required Computer Science

Project Courses

3 hours

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 206.

Electrical Engineering

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Graduate Program Director

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Graduate Faculty

Banatoski, Edward, Lecturer

Chu, Yui, Assistant Professor

Ben Ghalia, Mounir, Associate Professor

Foltz, Heinrich, Professor

Huq, Hasina, Assistant Professor

Kuang, Weidong, Associate Professor

Kumar, Sanjeev, Associate Professor

Li, Junfei, Associate Professor

Peng, Jun, Assistant Professor

Ramos, Jaime, Assistant Professor

Son, Jae Sok, Associate Professor

Master of Science in Engineering: Electrical Engineering

The Department of Electrical Engineering offers a graduate program leading to a Master of Science in Engineering.

The program has a thesis option and a non-thesis option.

Coursework and research opportunities are offered in a wide range of technical areas covering the discipline of electrical, electronics, and computer engineering.

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 recommended requirements are:

1. A bachelor's degree in electrical engineering or related field.
2. A GPA of 3.0 or higher on a 4.0 scale for the last 60 semester hours attempted.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Prospective graduate students whose bachelor's degree is in a field other than electrical engineering are required to take leveling courses, prescribed by the graduate program director, before they can be considered for admission to the electrical engineering graduate program.

Degree Requirements

General Requirements for Thesis Option

1. The thesis option for the master's degree requires a minimum of 30 hours of graduate work, including six thesis credits identified as ELEE 7300 and ELEE 7301.
2. The graduate program director will help the student prepare an initial plan of study to begin his/her first semester of work. During the first semester, the student is urged to discuss potential research topics with several faculty members in order to choose a topic that interests him/her and a major professor to act as his/her thesis adviser. When a thesis topic has been selected, a graduate committee composed of at least three graduate faculty members shall be formed in conjunction with the major professor and department chair. The committee should include at least two electrical engineering faculty members from UTPA and one faculty member from another department. A final plan of study must be prepared and approved by the major professor, the department chair, and the dean no later than the second semester of work.
3. Each student should submit a proposal to the graduate committee that describes the thesis topic in sufficient detail. A copy of the proposal should also be submitted to the department. The proposal should normally be submitted before the student signs up for his/her first thesis course. Students should bear in mind that a master's thesis could be published in the technical literature and should represent original work 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 students graduate committee at least one week before the oral presentation. Students are expected to make changes to the final copy of their master's thesis based on feedback obtained from the oral presentation. Students should expect to be asked fundamental questions during the oral presentation. If the student fails the thesis defense, he/she may be allowed to take a second defense contingent upon the approval of the graduate committee, the department chair and the dean. If approved, the timing and requirements of the second defense will be specified by the graduate committee, but in no case will the student be able to defend his/her thesis for the second time until at least one semester has passed. After two failures, no further thesis defense is allowed.

5. Students are responsible for preparing and copying the final thesis. One copy must be provided to the professor and one copy to the department in addition to copies required by the Office of Graduate Programs and Research. Members of the students graduate committee are required to be provided with a copy of the thesis. It is the responsibility of the student to adhere to the University requirements for the format and submission of a thesis.
6. All candidates for the Master of Science program must maintain a minimum GPA of 3.0 throughout their program of study. Any student with clear admission whose GPA falls below 3.0 will be placed on probation. To remain in the graduate program, the student must restore his/her GPA to 3.0 by the end of the following semester.
7. No more than six credit hours total may be counted toward the degree from the following categories: (a) transfer courses, (b) courses taken outside the electrical engineering department, or (c) independent study courses
8. No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

Thesis Option

(30 hours total)

Elective Courses in

Electrical Engineering	18 hours
Elective Courses in Science and Engineering	6 hours

Master's Thesis

6 hours

ELEE	7300
ELEE	7301

Elective courses should be selected with the consent of the student's thesis adviser. No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

General Requirements for Non-Thesis Option

The non-thesis option for the master's degree requires a minimum of 36 hours of graduate work.

The graduate program director will help the student prepare a plan of study during his/her first semester of work. The graduate program director, department chair, and dean must approve the final study plan.

In addition to course requirements, each student in the non-thesis option will be required to pass a comprehensive examination during or at the end of the student's final semester of work. An examining committee formed by a number of faculty members with whom the student has taken one or more graduate courses will administer the examination. 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, department chair, and 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.

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.

No more than six credit hours total may be counted toward the degree from the following categories: (a) transfer courses, (b) courses taken outside the electrical engineering department, or (c) independent study courses.

No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

Non-Thesis Option (36 hours total)

Elective Courses in Electrical Engineering 30 hours

Elective Courses in Science and Engineering 6 hours

Elective courses should be selected with the consent of the graduate director. No more than three hours of ELEE 6385 (Independent Study) may be counted toward the degree.

Transfer of Graduate Credits

A maximum of six 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 218.

Manufacturing Engineering

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Faculty

Bose, Subhash, Professor

Butler, Alley, Professor

Ignizio, James, Beecherl Professor

Gonzalez, Miguel, Associate Professor

Lee, Kye-Hwan, Assistant Professor

Li, Jianzhi, Associate Professor

Nambiar, Rajiv, Associate Professor

Timmer, Douglas, Professor

Master of Science in Engineering: Manufacturing Engineering

Graduate Program Overview

The University of Texas-Pan American Department of Manufacturing Engineering offers a graduate program in manufacturing engineering leading to a Master of Science in Engineering degree. The department offers thesis, report and coursework options. Students may further specialize within the major through selection of elective courses, or a concentration in systems engineering.

The manufacturing engineering major is designed to help practicing engineers and managers with extensive engineering experience in manufacturing and graduates in

engineering, the physical sciences, and business to further their education for better opportunities in manufacturing industries. The major provides technical and engineering management skills, provides education in cutting-edge technology to manufacturing professionals so they can be competitive in the global market, and prepares students for doctoral programs in manufacturing engineering.

The graduate program in manufacturing engineering requires 30-36 semester credit hours, nine of which are required of all students. The nine hours are selected such that there is a course from each of three area lists in quality, design and systems. There are three options for completing an MSE in manufacturing engineering: 1) thesis, 2) 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 report. The coursework only option requires 36 hours of courses. There is a requirement of 18 hours of manufacturing engineering coursework for option one, 24 hours of manufacturing engineering course work for option two and 24 hours manufacturing engineering coursework for option three from manufacturing engineering. The remaining hours of coursework for the thesis option, report option or coursework only option may be from manufacturing engineering, mechanical engineering, electrical engineering, business, math or computer science with the approval of the students Graduate Faculty Advisory Committee (GFAC).

For those students interested in a concentration in systems engineering there is a prescribed list of courses required for the thesis option and for the coursework option. With the concentration in systems engineering, the thesis option requires a total of 33 hours and the coursework option requires a total of 36 hours. The report option is not available with a concentration in systems engineering.

Students who choose the thesis or engineering practicum with project report option shall make an oral presentation on the thesis, or the project report, to the faculty advisory committee. Students who opt for the coursework option or the report option take a written test to complete the requirements for the Master of Science in Engineering. The thesis option gives students an opportunity to pursue research and continue a doctoral program in manufacturing engineering or related fields. The engineering practicum with a report option is designed to help practicing engineers or managers with manufacturing engineering experience to apply new technology in manufacturing and to help manufacturing industries be competitive in the world market. The report option gives fresh graduate engineers an opportunity to develop contact with an industry through project work for a report, therefore, enhancing opportunities for jobs. The report option also gives students an opportunity to work on an industrial problem for two semesters (three hours each semester). The coursework-only option is designed to give technical depth in the manufacturing disciplines while allowing the breadth by six hours of coursework from outside the manufacturing engineering area. The coursework only path is expected to meet the needs of practicing engineers who do not intend to pursue further graduate work in engineering and only desire to follow an industrial career path.

Students may be required to take some leveling courses to meet the prerequisites, depending on their undergraduate major and experience in manufacturing engineering. The student's Graduate Faculty Advisory Committee specifies each student's leveling work.

Admission to the Manufacturing Engineering Program

The student must first meet all requirements for graduate admission to UT Pan American (see page 18). Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Degree Requirements

Thesis Option (30 hours)

- Courses required of all students (Three hours from each area; see list below.) 9 hours
- Elective courses prescribed None
- Courses elected by students (Six hours from business, manufacturing, mechanical or electrical engineering, computer science, or mathematics chosen with the consent of the students GFAC.) 6 hours
- Courses from Manufacturing Engineering 9 hours
- Thesis 6 hours

Report Option (36 hours)

- Courses required of all students (Three hours from each area; see list below.) 9 hours
- Elective courses prescribed None
- Courses elected by students (Six hours from business, manufacturing, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the students GFAC.) 6 hours
- Courses from Manufacturing Engineering 15 hours
- Report 6 hours

Coursework Only Option (36 hours)

- Courses required of all students (Three hours from each of three areas listed below.) 9 hours
- Elective courses prescribed None

- Courses elected by students 6 hours
(Six hours from business, manufacturing, mechanical or electrical engineering, computer science or mathematics chosen with the consent of the students GFAC.)
- Courses from Manufacturing Engineering 21 hours

Leveling Courses

Students whose undergraduate major is not manufacturing engineering are required to take some leveling courses from the list given below with approval of the students Graduate Faculty Advisory Committee. Leveling courses are determined for each student by the student’s advisory committee based on his/her course background and experience in manufacturing.

MECE	1221	Engineering Graphics
MECE	3340	Fundamentals of Industrial Engineering
MANE	2332	Engineering Statistics
MANE	3364	Manufacturing Processes
MATH	1460	Calculus I
MATH	1470	Calculus II
MATH	3349	Differential Equations
MECE	2140	Engineering Materials Laboratory
MECE	2340	Engineering Materials
MECE	2303	Statics
MECE	2304	Dynamics
ELEE	3305	Electrical and Electronic Systems

Manufacturing Engineering Courses

Students are required to take at least one course from each of the three areas given below. The remaining 15-27 hours depending on the option (thesis, report or coursework only) may be taken from any of the three areas in manufacturing engineering. Courses should be approved by the student’s Graduate Faculty Advisory Committee.

Quality

MANE	6311	Advanced Quality Control
MANE	6313	Design of Experiments
MANE	6315	Reliability Engineering
MANE	6354	Advanced Engineering Economics
MANE	6319	Quality Management Systems

Design

MANE	6323	Advanced Computer-Aided Design
MANE	6365	Tool Design and Analysis
MANE	6369	Mold Design and Analysis
MANE	6346	Polymer Engineering
MANE	6375	Human Factors
MANE	6372	Advanced Engineering Analysis
MANE	6357	Ergonomics
MANE	6364	Advanced Manufacturing Processes
MANE	6368	Logistics Engineering
MANE	6383	Polymer Systems
MANE	6384	Polymer Structures
MANE	6385	Plastic Product Design

Systems

MANE	6321	Robotics and Automation
MANE	6328	Dynamic Systems Modeling
MANE	6331	Advanced Manufacturing Planning and Control
MANE	6340	Operations Research and Analysis
MANE	6342	Engineering Decision Support Systems
MANE	6343	Queueing Models for Manufacturing Systems
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6380	Engineering Project Management

Students may enroll in engineering project or thesis depending on the option-thesis or report. Topics in Manufacturing Engineering (MANE 6399) may be taken as part of the 15-27 hours of coursework required for graduation.

Courses for Concentration in Systems Engineering with the Thesis Option

Students who want to receive a Concentration in Systems Engineering and complete a research thesis must complete a list of prescribed courses to receive the Concentration in Systems Engineering. The courses include subject matter specific to the practice of systems engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering
MANE	6319	Quality Management Systems (or
MANE	6368	Logistics Engineering)
MANE	6340	Operations Research
MANE	6345	Engineering Management (or
MANE	6365	Human Factors)
MANE	6348	Systems Engineering
MANE	6352	Simulation of Manufacturing Systems
MANE	6380	Engineering Project Management
MANE	7300	Thesis I
MANE	7301	Thesis II

Courses for Concentration in Systems Engineering with the Coursework Option

Students who want to receive a concentration in systems engineering with a coursework option must complete a list of prescribed courses to receive the concentration in systems engineering. The courses include subject matter specific to the practice of systems engineering.

CSCI	6340	Software Engineering
MANE	6304	Industrial Cost Analysis
MANE	6315	Reliability Engineering

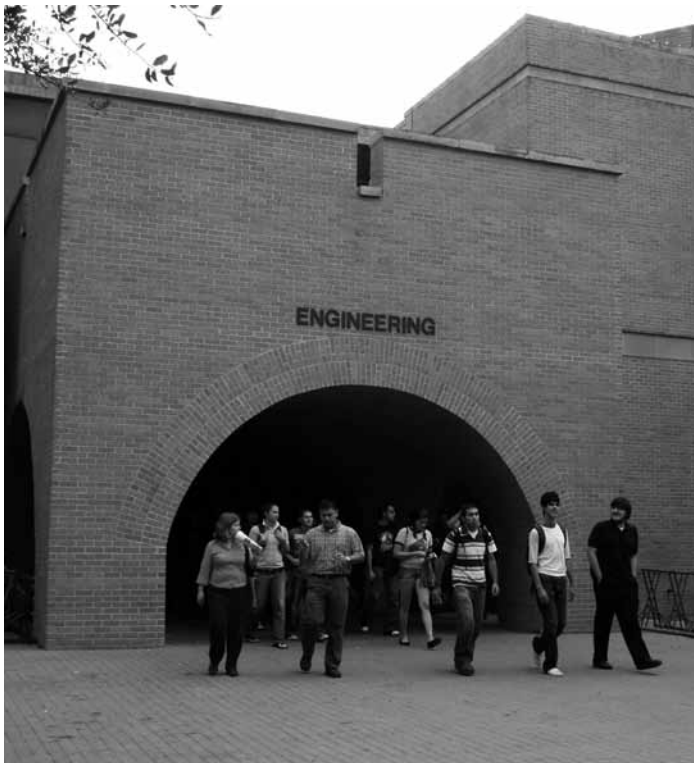
MANE 6319	Quality Management Systems
MANE 6340	Operations Research
MANE 6345	Engineering Management
MANE 6348	Systems Engineering
MANE 6352	Simulation of Manufacturing Systems
MANE 6357	Ergonomics
MANE 6365	Human Factors
MANE 6368	Logistics Engineering
MANE 6380	Engineering Project Management

Engineering Practicum/Thesis/Topics in Manufacturing Engineering

MANE 6399	Topics in Manufacturing Engineering <i>(May be repeated for credit when topic changes.)</i>
MANE 6190	Engineering Project
MANE 6290	Engineering Project
MANE 6390	Engineering Project <i>(May be repeated for credit.)</i>
MANE 7300	Thesis I <i>(May be repeated for credit until completing thesis work.)</i>
MANE 7301	Thesis II <i>(May be repeated for credit until completing thesis work)</i>

Course Descriptions

A listing of graduate course offerings in manufacturing engineering can be found in the Course Descriptions beginning on page 239.



Master of Science in Engineering Management

Graduate Program Overview

The University of Texas-Pan American offers a graduate program in engineering management leading to a Master of Science. The department offers thesis, report and non-thesis options. The manufacturing engineering department is transitioning this program to an online delivery mode. Additionally, a concentration in systems engineering is available for students interested in qualifications in systems engineering.

The engineering management major is designed for students to develop an understanding of the engineering relationships between the management tasks of planning, organization, leadership, control and the human element in production, research and service organizations. There are strong synergies between the MS in engineering management, the MS in computer science and information technology, the existing MSE programs in electrical engineering, manufacturing engineering, mechanical engineering and the College of Business Administration. Students are provided an opportunity to strengthen their technological education and acquire the skills to manage and lead engineers and engineering systems.

The graduate program in engineering management requires 30-36 semester credit hours, 15 of which are required of all students. There are three choices of programs in engineering management: 1) thesis, 2) report, and 3) coursework only. The thesis option requires 24 hours of coursework and six hours of thesis. The 24 hours of coursework is divided into 15 hours of required coursework, 3-9 hours of engineering management electives, and 0-6 hours of non-engineering management electives. The report option requires 30 hours of coursework and six hours of report. The 30 hours of coursework is divided into 15 required hours, 6-15 hours of engineering management electives, and 0-9 hours of non-engineering management electives. The coursework only option requires 36 hours of coursework divided into 15 required hours, 9-21 hours of engineering management electives, and 0-12 hours of non-engineering management electives.

For those students interested in a concentration in systems engineering there is a prescribed list of courses required for the thesis option and for the coursework option. With the concentration, the thesis option requires 33 hours and the coursework option requires 36 hours. The report option is not available with a concentration in systems engineering.

Students make an oral presentation on the thesis, the report or a project for coursework option to the faculty advisory committee. Students not enrolled in the thesis option must satisfactorily pass a written test to complete the requirements for the Master of Science in engineering management.

The thesis option gives students an opportunity to pursue research and continue their studies at the doctoral level. The engineering practicum with report option is designed to help practicing engineers or engineering managers with managing engineers and engineering systems. The coursework option is designed to provide technical breadth. The coursework only path is designed to meet the needs of practicing engineers and engineering managers who do not intend to pursue further graduate studies.

Students may be required to take some leveling courses to satisfy prerequisites, depending on their undergraduate major and experience. The departmental graduate adviser or the student's Graduate Faculty Advisory Committee (GFAC) specifies each student's leveling work.

Admission to the Engineering Management Program

The student must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below for clear admission to the program. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Entry requirements include:

1. A GPA of 3.0 or higher (on a 4.0 scale).
2. A bachelor's degree in engineering.
3. A minimum of two years of engineering experience.
4. Completion of MANE 2340 Fundamentals of Industrial Engineering, MANE 3332 Engineering Statistics, MANE 3337 Engineering Economics, or equivalent courses.
5. For foreign national students whose primary language is not English, a score on the Test of English as a Foreign Language (TOEFL) of 500.
6. Successfully completed all requirements for changing from probationary to clear admission (if applicable).

Degree Requirements

Thesis Option

a) Courses required of all students	15 hours
b) Electives prescribed for the students	None
c) Engineering Management electives	3-9 hours
d) Other: Thesis	6 hours

TOTAL SCH 30 hours

Engineering Practicum Option

a) Courses required of all students	15 hours
b) Electives prescribed for the students	None
c) Engineering Management electives	6-15 hours
d) Non-Engineering Management	

electives	0-9 hours
e) Other - Practicum/Project	0-6 hours

TOTAL SCH 36 hours

Coursework Option

• Courses required of all students	15 hours
• Electives prescribed for the students	None
• Engineering Management electives	9-21 hours
• Non-Engineering Management electives	0-12 hours
• Other	None

TOTAL SCH 36 hours

Coursework for Concentration in Systems

Engineering with Thesis Option

Students who want to receive a concentration in systems engineering and complete a research thesis must complete a list of prescribed courses to receive the concentration in systems engineering. The courses include subject matter specific to the practice of systems engineering.

CSCI 6340	Software Engineering
MANE 6304	Industrial Cost Analysis
MANE 6315	Reliability Engineering
MANE 6319	Quality Management Systems (or
MANE 6368	Logistics Engineering)
MANE 6340	Operations Research
MANE 6345	Engineering Management (or
MANE 6365	Human Factors)
MANE 6348	Systems Engineering
MANE 6352	Simulation of Manufacturing
	Systems
MANE 6380	Engineering Project Management
MANE 7300	Thesis I
MANE 7301	Thesis II

Coursework for Concentration in Systems Engineering with Coursework Option

Students who want to receive a concentration in systems engineering with a coursework option must complete a list of prescribed courses to receive the concentration in systems engineering. The courses include subject matter specific to the practice of systems engineering.

CSCI 6340	Software Engineering
MANE 6304	Industrial Cost Analysis
MANE 6315	Reliability Engineering
MANE 6319	Quality Management Systems
MANE 6340	Operations Research
MANE 6345	Engineering Management
MANE 6348	Systems Engineering
MANE 6352	Simulation of Manufacturing
	Systems

MANE	6357	Ergonomics
MANE	6365	Human Factors
MANE	6368	Logistics Engineering
MANE	6380	Engineering Project Management

Leveling Courses

MANA	3340	Fundamentals of Industrial Engineering
MANE	2332	Engineering Statistics (or MATH 4339)
MANE	3337	Engineering Economy

Courses Required of All Students

MANE	6304	Industrial Cost Systems
MANE	6319	Quality Management Systems
MANE	6340	Operations Research and Analysis
MANE	6345	Engineering Management
MANE	6380	Engineering Project Management

Engineering Management Electives

MANE	6311	Advanced Quality Control
MANE	6313	Design of Experiments
MANE	6315	Reliability Engineering
MANE	6331	Advanced Manufacturing Planning and Control
MANE	6341	Advanced Operations Research and Analysis
MANE	6342	Decision Support Systems
MANE	6343	Queueing Models for Manufacturing Systems
MANE	6347	Facilities Layout
MANE	6348	Systems Engineering
MANE	6349	Advanced Work Science
MANE	6352	Simulation of Manufacturing Systems
MANE	6354	Advanced Engineering Economy
MANE	6357	Ergonomics
MANE	6364	Advanced Manufacturing Processes
MANE	6368	Logistics Engineering
MANE	6383	Polymer Systems
MANE	6384	Polymer Structures
MANE	6385	Plastic Product Design
MANE	6399	Topics in Manufacturing Engineering (may be repeated for credit when the topic changes)

Non-Engineering Management Electives

Engineering management students may select additional graduate elective courses other than the courses listed under engineering management electives with their committee's approval. Thesis students are limited to six hours of non-engineering management electives. Report option students are limited to six hours of non-engineering management electives, and coursework option students are limited to 12 hours of non-engineering management electives.

Students may elect to strengthen their technical education by selecting non-engineering management graduate courses offered by the College of Engineering and Computer Science. Students desiring to strengthen their education in management may enroll in graduate courses offered by the College of Business Administration (COBA). A partial list of electives from COBA is shown below:

FINA	6340	Financial Administration
MGMT	6330	Management
MGMT	6331	Personnel Administration and Industrial Relations
MGMT	6332	Organizational Leadership and Change
MGMT	6334	International Management
MGMT	6335	Organizational Theory
MGMT	6360	Production Management and Operations Management

Engineering Practicum/Thesis Courses

MANE	6190	Engineering Project
MANE	6290	Engineering Project
MANE	6390	Engineering Project
MANE	7300	Thesis I (may be repeated for credit)
MANE	7301	Thesis II (may be repeated for credit)

Course Descriptions

A listing of graduate course offerings in Engineering Management can be found in the Manufacturing Engineering course descriptions beginning on page 239.



Mechanical Engineering

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Dr. Constantine Tarawneh,
Graduate Program Director
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Faculty

Ahn, Seokyoung, Assistant Professor
Allen, David, Professor and Dean
Caruntu, Dumitru, Assistant Professor
Choutapalli, Issac, Assistant Professor
Crown, Stephen, Professor
Freeman, Robert A., Professor
Fuentes, Arturo, Associate Professor
Jones, Robert E., Professor
Kypuros, Javier, Associate Professor
Lozano, Karen, Professor
Mihut, Dorina, Assistant Professor
Park, Young-Gil, Assistant Professor
Qubbaj, Ala, Professor
Sarkar, Kamal, Lecturer
Tarawneh, Constantine, Associate Professor
Vasquez, Horacio, Assistant Professor

Master of Science in Engineering: Mechanical Engineering

The Mechanical Engineering Department offers a graduate program leading to a Master of Science in engineering degree. The program has a thesis option, a project with report option and a course option. Coursework is offered in areas including mechanics and design, materials and thermal/fluid sciences. Potential research opportunities exist in combustion, nanotechnology, MEMS and NEMS, smart structures, biomechanics, robotics, mechatronics, acoustics and vibrations, materials science, solid mechanics and laser material processing, experimental heat transfer and

fluid mechanics, thermal and dynamic analysis of railroad bearings, and bearing condition.

Admission to the Mechanical Engineering Program

Applicants must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

For unconditional admission the student must:

1. Have a bachelor's degree in mechanical engineering or related area with a GPA of 2.75 or higher on a 4.0 scale.
2. Attach or request through their online application three letters of recommendation attesting to the applicant's academic potential and capability for performing graduate-level work in mechanical engineering.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Those with bachelor's degree in a field other than mechanical engineering may be admitted subject to completion of a set of undergraduate leveling courses prescribed by the graduate program director. Students admitted conditionally must successfully complete all leveling courses, if any, and successfully complete their first six hours of graduate work with a grade of B or higher.

Degree Requirements

Thesis Option (30 hours total)

This option requires 24 hours of regular coursework plus six hours of thesis, selected as follows:

- | | |
|----|---|
| A. | Twelve hours of required coursework |
| | MECE 6310 Intermediate Engineering Analysis |
| | MECE 6320 Fracture Mechanics |
| | MECE 6341 Modeling of Physical Systems |
| | MECE 6372 Viscous Flow I |
| B. | Six hours of Thesis |
| | MECE 7300 Master's Thesis I |
| | MECE 7301 Master's Thesis II |

C. Twelve hours of additional courses chosen with the consent of the student's adviser. At least six hours must be in mechanical engineering and up to six hours may be selected from other programs within the College of Engineering and Computer Science, but must be approved by the student's adviser and the graduate program director.

Report Option (36 hours total)

This option requires 30 hours of regular coursework plus six hours of project report, selected as follows:

- A. Twelve hours of required coursework
- | | | |
|------|------|-----------------------------------|
| MECE | 6310 | Intermediate Engineering Analysis |
| MECE | 6320 | Fracture Mechanics |
| MECE | 6341 | Modeling of Physical Systems |
| MECE | 6372 | Viscous Flow I |
- B. Six hours of project report:
- | | | |
|------|------|--------------------|
| MECE | 6397 | Master's Report I |
| MECE | 6398 | Master's Report II |

C. Eighteen hours of additional courses chosen with the consent of the student's adviser. At least 12 hours must be in mechanical engineering and up to six hours may be selected from other programs within the College of Engineering and Computer Science, but must be approved by the student's adviser and the graduate program director.

Non-Thesis Option (36 hours)

This option requires 36 hours of regular coursework, selected as follows:

- A. Twelve hours of required coursework
- | | | |
|------|------|-----------------------------------|
| MECE | 6310 | Intermediate Engineering Analysis |
| MECE | 6320 | Fracture Mechanics |
| MECE | 6341 | Modeling of Physical Systems |
| MECE | 6372 | Viscous Flow I |

B. Twenty-four hours of additional courses chosen with the consent of the student's adviser. At least 18 hours must be in mechanical engineering, and up to six hours may be selected from other programs within the College of Engineering and Computer Science, but must be approved by the graduate program director.

Course Descriptions

A listing of mechanical engineering graduate courses offered by the Department of Engineering can be found in the Course Descriptions section of this catalog on page 249.

**Graduate Certificate Programs in Mechanical Engineering: Mechanics and Design, Materials and Thermal-Fluid Sciences****Mission Statement**

The Department of Mechanical Engineering will provide students and professionals a quality education to prepare them for the practice of engineering.

Background

Students and professionals interested in obtaining additional broad-based technical education in a selected mechanical engineering area of concentration will have the option of pursuing a graduate certificate program. The current mechanical engineering research and graduate teaching areas include: mechanics and design, materials, and thermal-fluid sciences.

The certificate program is a professional-oriented program designed for individuals who possess at least one degree in engineering or closely related field and desire additional specialized training in an area of mechanical engineering.

The certificate program makes available to working professionals valuable advanced training and professional development. The program is structured so that current employees can enhance skills relevant to employers' needs without leaving for training.

Certificate Programs Overview

This is a twelve-hour program consisting of four graduate courses. Most of the mechanical engineering graduate courses are offered during the evening, which is convenient for working professionals. The number of courses offered may vary per semester. Students receive a certificate upon completion of four graduate courses at UT Pan American in a chosen area from the mechanical engineering graduate courses list with a minimum cumulative GPA of 3.0 on a 4.0 scale.

Eligibility

UT Pan American undergraduate students are eligible to enroll in courses upon graduation.

Students who are not currently enrolled must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

For unconditional admission, the student must:

1. Have a bachelor's degree in mechanical engineering or related area with a GPA of 2.75 or higher on a 4.0 scale.

2. Attach or request through their online application three letters of recommendation attesting to the applicant's academic potential and capability for performing graduate-level work in mechanical engineering.

Applicants who do not satisfy the specific program criteria above will be considered for conditional admission. Those with a bachelor's degree in a field other than mechanical engineering may be admitted subject to completion of a set of undergraduate leveling courses prescribed by the graduate program director. Students admitted conditionally must successfully complete all leveling courses, if any, and successfully complete their first six hours of graduate work with a grade of B or higher.

Conditions and Limitations

All courses for the certificate must be taken at the Department of Mechanical Engineering. Transfer graduate courses are NOT considered for the certificate. The maximum time limit for completion of the certificate program is four years. In the fifth year, a student must begin with four new graduate courses to earn his/her certificate.

The credit for classes may be applied toward the Master of Science in Mechanical Engineering should the student decide later to pursue an advanced degree. For instance, obtaining three different certificates will grant the professional a master's degree in mechanical engineering upon completion of an oral and written comprehensive examination.

Certificate programs will be available in the following areas:

Mechanics and Design

Choose four, three-unit courses from the following list: MECE 6310, MECE 6329, MECE 6331, MECE 6332, MECE 6333, MECE 6334, MECE 6335, MECE 6339, MECE 6341, MECE 6342, MECE 6343, MECE 6344, MECE 6360, MECE 6362, MECE 6399.

Materials

Choose four, three-unit courses from the following list: MECE 6310, MECE 6317, MECE 6318, MECE 6319, MECE 6320, MECE 6321, MECE 6322, MECE 6323, MECE 6324, MECE 6325, MECE 6326, MECE 6327, MECE 6328, MECE 6329, MECE 6362, MECE 6399.

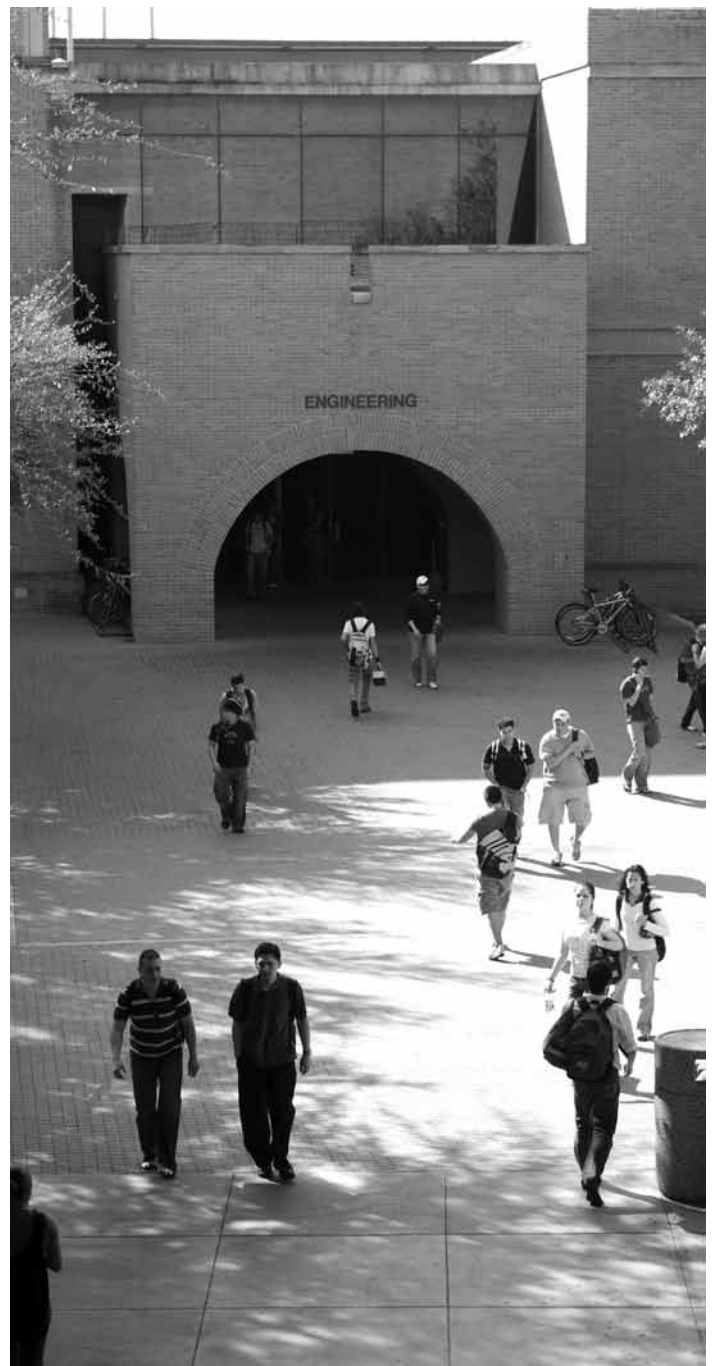
Thermal-Fluid Sciences

Choose four three-unit courses from the following list: MECE 6310, MECE 6341, MECE 6362, MECE 6372, MECE 6373, MECE 6375, MECE 6379, MECE 6380, MECE 6384, MECE 6385, MECE 6399.

U.S. Citizenship and Immigration Services Considerations

Mexican nationals who will be living in Mexico while studying at UTPA are considered border commuter students. Border commuter students can apply for a student visa to study part-time at UTPA. However, international students, including Mexican nationals, who will be living in the United States while studying, can only apply for a student visa to study full time at UTPA (at least nine credits per semester). For more information, contact:

Dr. Constantine Tarawneh, Graduate Program Director
Department of Mechanical Engineering
Telephone: (956) 665-2607
E-mail: tarawneh@utpa.edu





COLLEGE OF HEALTH SCIENCES AND HUMAN SERVICES

General Overview

Recognizing the need for the University to take a leading role in the education of health care and human service professionals, the College of Health Sciences and Human Services, with the assistance and cooperation of regional facilities, is dedicated to providing educational programs necessary to meet the needs for competent health and human service professionals in the Rio Grande Valley, Texas, and the nation.

Mission

The College of Health Sciences and Human Services supports and facilitates the mission of The University of Texas-Pan American through academic programs of higher education, research and community service. The college is committed to enhancing the quality of life and health care in the Lower Rio Grande Valley binational border community and region. The faculty espouses a holistic multidisciplinary approach to meeting the educational needs of students and the dynamic health and human services needs of a diverse and multicultural society.

Dr. Janice A. Maville,

Interim Dean

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Academic Programs

The College of Health Sciences and Human Services offers the Master of Arts in communication sciences and disorders, Master of Science in rehabilitation counseling, Master of Science in nursing, Master of Science in occupational therapy, Master of Science in social work, Master of Science in physician assistant studies, Ph.D. in rehabilitation counseling, and the Cooperative Pharmacy Program with The University of Texas at Austin.

The College of Health Sciences and Human Services offers a Bachelor of Science in clinical laboratory sciences, communication sciences and disorders, dietetics, nursing, rehabilitative services and a Bachelor of social work degree. The Department of Rehabilitation also offers a minor in addiction studies as well as a minor in deaf studies.

Individual programs offered in the College of Health Sciences and Human Services have specific admissions requirements in addition to the University core curriculum requirements. Most programs also have requirements for student liability insurance, immunizations, and student criminal background checks. For specific information on these requirements, please see the major department, the advisement center, or the college website. Curricula for these programs provide theory as well as practice-based learning experiences. The practice-experience components have University negotiated affiliation agreements with numerous health, human and social service facilities in South Texas and other regions.

Cooperative Pharmacy Program

Health Sciences and Human Services West (HSHW)
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Introduction

The University of Texas-Pan American, in cooperation with The University of Texas at Austin College of Pharmacy offers a six-year curriculum leading to the Doctor of Pharmacy (Pharm.D.) degree. The Pharm.D. degree is the sole entry-level degree offered in the United States for those interested in becoming a licensed pharmacist. The Pharm.D. is a professional doctorate designed to prepare pharmacist practitioners to provide patient-oriented care in contemporary settings including, but not limited to, community practice, hospital environments and long-term care facilities.

The Cooperative Pharmacy Program (CPP) was developed to encourage students to consider pharmacy as a career. The CPP offers students the opportunity to complete pre-pharmacy and pharmacy curriculum at UTPA and in the surrounding Rio Grande Valley. The CPP offers two pathways, an early admissions pathway intended for graduating high school students, and a transitional pathway for students enrolled as pre-pharmacy majors at UTPA. Students admitted into the CPP have conditional admission to the UT Austin College of Pharmacy. Final admission approval is afforded by UT Austin College of Pharmacy upon successful completion of pharmacy prerequisites and other CPP requirements.

UTPA students who are not admitted into the CPP, yet are interested in pursuing pharmacy as a career, may apply directly to UT Austin College of Pharmacy upon completion of the required pharmacy prerequisites. Please visit the CPP website for additional information about the profession of pharmacy and links to the other Texas pharmacy programs.

Mission Statement

The mission of the Cooperative Pharmacy Program is to enhance the knowledge, health and well-being of the people we serve in concert with the mission, vision and values of both cooperating campuses of The University of Texas System through the recruitment, training and retention of proficient Doctor of Pharmacy trained pharmacists. The program will strive to encourage the provision of pharmaceutical care by cultivation of our graduate's 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 Commission on Colleges of the Southern Association of Colleges and Schools accredits both The University of Texas-Pan American and The University of Texas at Austin. In addition, The University of Texas at Austin College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education (20 North Clark Street, Suite 2500, Chicago, IL 60602-5109, (312) 664-3575, (800) 533-3606; fax (312) 664-4652; web: www.acpe-accredit.org). Only graduates of accredited programs are eligible to sit for the North American Pharmacist Licensure Examination™ (NAPLEX®) and Multistate Pharmacy Jurisprudence Examination® (MPJE®), both of which are required for licensure in the state of Texas.

Pharmacy Curriculum

The CPP is structured so that the students admitted into the program complete their first two years of pre-pharmacy requirements at UTPA, and then matriculate to UT Austin to complete their first two years of the pharmacy curriculum. Students then return to UTPA and the Rio Grande Valley to complete their third and fourth years of the pharmacy curriculum.

Pre-Pharmacy Years 1 and 2 at UTPA

(see next section for details)

Years 1 and 2: Coursework in English, Mathematics and the Natural Sciences.

Pharmacy Curriculum Years 1 and 2 at UT Austin

Year 3: A broad foundation in physiology, pathology, pharmaceutical sciences and pharmacy administration.

Year 4: An interdisciplinary approach to disease management and patient care through case-based learning.

Pharmacy Curriculum Years 3 and 4 at UTPA and in the Rio Grande Valley

Year 5: Advanced coursework in disease management and patient care.

Year 6: Calendar year consisting of seven six-week experiential rotations at pharmacy practice sites around the Rio Grande Valley.

Pre-Pharmacy Course Requirements

The following is an overview of the pre-pharmacy curricular requirements for the CPP and UT Austin College of Pharmacy. Individual degree plans will be developed for students admitted into the CPP.

Natural Sciences		36 hours
BIOL	1401	General Biology or
BIOL	1487	Honors Biology
BIOL	1402	General Biology or
BIOL	1488	Honors Biology
BIOL	3401	Microbiology
BIOL	3413	Genetics
CHEM	1301	General Chemistry I and
CHEM	1101	General Chemistry Lab I
CHEM	1302	General Chemistry II and
CHEM	1102	General Chemistry Lab II
CHEM	2302	Organic Chemistry I and
CHEM	2102	Organic Chemistry I Lab
CHEM	2303	Organic Chemistry II and
CHEM	2103	Organic Chemistry II Lab
PHYS	1401	General Physics

Mathematics			7 hours
MATH	1460	Calculus I	
		or	
MATH	1487	Honors Calculus I	
MATH	2330	Survey of Elementary Statistics	
		or	
MATH	3337	Applied Statistics I	
English			9 hours
ENG	1301	Composition	
		or	
ENG	1387	Honors Rhetoric and Composition	
ENG	1302	Rhetoric	
		or	
ENG	1388	Honors Rhetoric and Literature and one of the following	
ENG	2300	Introduction to Literature	
ENG	2303	Introduction to American Literature	
ENG	2305	Introduction to British Literature	
ENG	2307	Introduction to World Literature	
ENG	2387	Honors Readings in World Literature	
		or	
ENG	2388	Honors Readings in World Literature	
Political Sciences			6 hours
POLS	2313	U.S. and Texas Government and Politics	
		or	
POLS	2387	Honors U.S. and Texas Government and Politics	
POLS	2314	U.S. and Texas Government and Politics	
		or	
POLS	2388	Honors U.S. and Texas Government and Politics	
History			6 hours
HIST	2313	American Heritage I	
		or	
HIST	2387	Honors American Heritage I	
HIST	2314	American Heritage II	
		or	
HIST	2388	Honors American Heritage II	
Electives			11 hours
	Social and Behavioral Sciences	3 hours	
	Arts and Humanities	3 hours	
	Philosophy	3 hours	
	Computer Information Systems	2 hours	
Total			70 hours

All CPP students will be required to take the Pharmacy College Admission Test (PCAT) prior to matriculating to UT Austin College of Pharmacy. PCAT score expectations and other additional CPP requirements will be discussed with the students upon admission.

Admission to the Cooperative Pharmacy Program

Please refer to the CPP website for admissions requirements and application materials. The CPP website is easily accessible through the College of Health Sciences and Human Services at <http://www.utpa.edu/hshs/>.

The CPP site also contains faculty and staff contact information along with other resources.

COMMUNICATION SCIENCES AND DISORDERS

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Department Chair

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Graduate Faculty
Ayala, Kara, Assistant Professor
Mata-Pistokache, Teri, Associate Professor
Wang, Bailey Kehching, Professor

Purpose

The Master of Science in Communication Sciences and Disorders program is designed to prepare graduates for the Clinical Fellowship Year (CFY), the Certificate of Clinical Competence in Speech Language Pathology (CCC-SLP) from the American Speech-Language-Hearing Association (ASHA), a license for the state of Texas, and eventually independent clinical practice in the profession of speech-language pathology.

Scope

The Master of Science in communication sciences and disorders is a clinical and academic degree. Students must possess a bachelor's degree in communication sciences and disorders to apply to the master's program. The graduate curriculum includes extensive supervised clinical practice, as well as coursework in the following areas:

- Research in communication disorders.
- Multicultural issues.

- Normal speech-language development across the lifespan.
- Procedures for diagnosing and assessing disorders of articulation and phonology, language, fluency, swallowing and voice in children and adults.
- Procedures for addressing the intervention needs of individuals with disorders of articulation and phonology, child and adult language, fluency, and voice and swallowing.
- Procedures for audiological screening, assessment and interpretation of audiological test results.

Admission to the Master's Program in Communication Sciences and Disorders

To be admitted to the graduate program in communication sciences and disorders, prospective candidates must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online prior to the published deadline. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Degree Requirements

Required Academic Coursework	39 hours
Required Clinical Practicum	19 hours
Total Hours Required	58 hours
COMD 6180	Audiology Practicum (one registration)
COMD 6301	Clinical Practicum I: Speech Pathology
COMD 6302	Clinical Practicum II: Speech Pathology
COMD 6303	Clinical Practicum III: Speech Pathology
COMD 6304	Clinical Practicum IV: Speech Pathology
COMD 6310	Research in Communication Disorders
COMD 6320	Speech-Language and Hearing Science
COMD 6325	Childhood Language Disorders and Clinical Intervention
COMD 6330	Fluency Disorders
COMD 6335	Language Disorders in Adults
COMD 6340	Phonological Assessment and Intervention
COMD 6345	Voice Disorders
COMD 6350	Audiology II
COMD 6355	Normal and Abnormal Language Development of Culturally Diverse Populations

COMD 6365	Language Assessment of Culturally and Linguistically Diverse Populations
COMD 6370	Seminar in Speech Language Pathology
COMD 6385	Dysphagia
COMD 6395	Advanced Clinical Practicum (two registrations: Fall and Spring)
COMD 6397	Augmentative Alternative Communication

Practicum

All students must enroll in Clinical Practicum each semester during the first year (Fall, Spring, Summer I, Summer II). A minimum of one semester of COMD 6180 (Audiology Practicum) and a minimum of two semesters of COMD 6395 (Advanced Clinical Practicum) are required. Per ASHA requirements, at least 375 clock hours of supervised clinical practice and 25 hours of clinical observation must be completed and documented in conjunction with the practicum courses. These requirements are subject to change based on changes by the ASHA for certification.

Written and Oral Comprehensive Exams

Written comprehensive exams are required for the master's degree. However, should a student successfully complete the PRAXIS exam in speech-language pathology, written examinations will be waived. The PRAXIS and/or the written comprehensive exam should be completed in the final year of the student's graduate studies.

Graduate Thesis Option

Those who choose thesis must register for COMD 7300 during each semester of thesis work. Only three thesis credits may be counted toward graduation requirements. Students electing the thesis option must successfully defend the thesis.

Course Descriptions

A listing of graduate courses offered by the Department of Communication Sciences and Disorders may be found in the Course Descriptions section of this catalog beginning on page 199.



NURSING

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General Overview

The Department of Nursing offers two tracks of study leading to the Master of Science in Nursing. These include the Adult Health track with specialization in the nurse educator role and the Nurse Practitioner track with specialization in the family nurse practitioner role.

Mission

The Master of Science in Nursing Program is designed to prepare the graduate to use an expanded skill, theory, research, and knowledge base in advanced practice nursing. The program emphasizes preparation of students to meet the dynamic needs of the international, multicultural, and multilingual society of the Rio Grande Valley. The curriculum promotes the development of advanced critical thinking and inter-collaborative skills to be used in conceptualizing, synthesizing, and evaluating nursing and health care.

Graduate Outcomes

Upon completion of the master's in nursing, graduates have been provided the opportunity to enable themselves to:
Function as a scholar clinician with critical thinking skills.

- Synthesize theories from natural, behavioral and social sciences to support advanced clinical nursing and role development.
- Evaluate the use of nursing theories as a base for advanced practice.
- Participate in, evaluate, and use research to promote the body of nursing knowledge.

Practice at the beginning level in an advanced nursing role by:

- Demonstrating critical thinking and diagnostic reasoning skills in clinical decision-making in the identification, evaluation and management of health needs of clients.
- Demonstrating development of a healing nurse-client relationship.
- Reflecting competency in the teaching-counseling aspects of practice.
- Demonstrate cultural competence in meeting the dynamic health needs of the international, multicultural and multilingual society of the Rio Grande Valley.
- Demonstrate beginning competency in the organizational and work role aspects of advanced practice.
- Function as a nursing leader in professional association activities, health policy formation, and legislative and regulatory issues.
- Function as a multidisciplinary collaborator in the assessment, planning, implementation and evaluation of health care.
- Demonstrate preparation for continuing education in formal and informal programs of study.

Student Learning Outcomes

Student learning outcomes are condensed from the graduate outcomes to facilitate evaluation of learning as students progress in the curriculum toward the intended graduate outcomes. The student learning outcomes are that the student will:

1. Function as a scholar clinician with critical thinking skills supported by theories from the natural, behavioral, and social sciences.
2. Practice in an advanced nursing role to provide culturally competent care to patients in diverse health care settings.
3. Function as a nursing leader and multidisciplinary collaborator in the provision and evaluation of health care.

4. Participate in, evaluate, and use research to promote the body of nursing knowledge.

The Master of Science in Nursing Program is accredited by the Commission on Collegiate Nursing Education (One Dupont Circle, NW, Suite 530, Washington, D.C. 20036-1120, 202/887-6791).

Requirements for Admission into the Master of Science in Nursing Program

In order to be admitted to the Master of Science in Nursing Program, the student must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other MSN program admission requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office. Applications are accepted throughout the year. The formal deadline, however, is April 1 (or the first previous business day if April 1 is a weekend date) for the next academic year beginning each fall semester. Admissions for spring semester and summer sessions are based on space availability.

Clear and Conditional Admission

Clear admission status and conditional admission status for the MSN program has the following requirements which are in addition to the UTPA requirements:

1. A bachelor's degree in nursing from a nationally accredited program.
2. Current licensure as a registered nurse in Texas.
3. GPA of 2.75 or above on a 4.0 scale in the last 60 hours attempted.
4. A basic undergraduate statistics course.
5. Three satisfactory academic and/or professional references (submitted through the online application system).
6. Approval of the MSN Student Development Committee.
7. Immunization records showing freedom from active tuberculosis, immunity to hepatitis B, and other diseases including measles, mumps, rubella, varicella, and tetanus/diphtheria (submitted upon notice of admission to the program).
8. A clear criminal background check.

Transfer Admission

Transfer admission will follow University guidelines. A maximum of nine graduate hours may be accepted following review by the MSN Student Development Committee. The transfer 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 intention to the MSN program
3. Obtaining consent of the instructor of the course being taught at UT Pan American.

Transfer students desiring admission to the MSN program must complete the application process as required for all applicants.

Non-Degree Admission

The non-degree-seeking category is for those post-master's students who want to take courses, but are not working toward a degree. Non-degree students may enroll in selected courses by:

1. Submitting a Graduate Student Admission Form to the Office of Graduate Studies, and meeting deadlines for admission. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool.
2. Submitting a letter of application to the MSN Student Development Committee in the Department of Nursing.
3. Submitting official transcripts to the Office of Graduate Studies verifying a bachelor's degree in nursing.
4. Obtaining acceptance by the MSN Student Development Committee.
5. Submitting verification of:
 - Immunization records showing freedom from active tuberculosis and immunity to hepatitis B, and other diseases including measles, mumps, rubella, varicella, tetanus/diphtheria, and any other required immunizations.
 - Current licensure as a registered nurse in the state of Texas.
 - A clear criminal background check.

Students admitted to the non-degree status who decide to obtain a degree may write to the MSN Student Development Committee and apply to the graduate program. The application letter should include a petition of courses, completed while under the non-degree status, be credited toward the degree. A maximum of nine hours, with grades of B or better, may be proposed toward the master's degree in nursing. At the time the application is reviewed, the student must have provided an official transcript, letters of reference, evidence of current Texas licensure, and evidence of meeting the basic undergraduate statistics prerequisite.

International Student Admission

In addition to the University and MSN program admission requirements, the following are required:

1. A minimum score of 500 on the TOEFL. This score should be no more than two years old, but can be evaluated on an individual basis.

2. A course-by-course transcript evaluation by Foreign Credentials Service of America.
3. A license to practice nursing in the state of Texas obtained prior to admission according to Board of Nurse Examiners rules and regulations for foreign nursing graduates.

Licensure Updating

It is the responsibility of each student to update program records each time the nursing license is renewed. Students must maintain a current Texas license as a registered nurse at all times during their educational experience.

Liability Insurance

Student liability insurance is required when enrolled in any course with a clinical component having patient contact. Fees for the student program policy will be assessed in the fall semester for the academic year and be included in registration fees. Fees will depend on the clinical track. Students entering in a spring or summer semester will have a prorated fee assessed. Student liability insurance policy only provides protection for students while they are participating in clinical practice as required for their academic coursework and does not cover students in employment.

Inactive Status and Readmission

Students in good standing who desire not to enroll one term may do so. Students must submit a letter to the MSN program coordinator indicating their wish to remove themselves from the program for a term. Students must notify the Office of Graduate Studies and the MSN Student Development Committee in writing when they wish their files reactivated. Readmission is not automatic and dependent upon final recommendations from the MSN Student Development Committee and space availability.

Requirements for MSN

The general requirements for the master's in nursing are as follows:

1. A degree plan approved by the MSN program coordinator.
2. Satisfactory completion of all courses within five years of admission.
3. Satisfactory completion of the thesis or non-thesis option.

MSN Curriculum for Adult Health Specialization

Required Courses	31 hours
NURS 6301	Theoretical Foundations in Nursing
NURS 6302	Research in Nursing
NURS 6303	Statistics in Nursing

NURS 6304	Advanced Pathophysiology in Nursing
NURS 6305	Advanced Health Assessment
NURS 6306	Pharmacology for Advanced Nursing Practice
NURS 6208	Nursing Informatics
NURS 6209	Professional Nursing Issues
NURS 6310	Advanced Practice: Health Promotion
NURS 6322	Advanced Adult Health II
NURS 6323	Advanced Adult Health III

Functional Role Courses 6 hours

Educator	
NURS 6343	Educator I
NURS 6344	Educator II

Thesis Option 6 hours

NURS 7300	Thesis I (Proposal)
NURS 7301	Thesis II

Non-Thesis Option 6 hours

NURS 7302	Practice Intervention Project Graduate Elective
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Program Total 43 hours

MSN Curriculum for Family Nurse Practitioner

Required Courses 45 hours

NURS 6301	Theoretical Foundations in Nursing
NURS 6302	Research in Nursing
NURS 6303	Statistics in Nursing
NURS 6304	Advanced Pathophysiology in Nursing
NURS 6305	Advanced Health Assessment
NURS 6306	Pharmacology for Advanced Nursing Practice
NURS 6307	Health Care Policy, Organization and Financing
NURS 6208	Nursing Informatics
NURS 6209	Professional Nursing Issues
NURS 6310	Advanced Practice: Health Promotion
NURS 6311	Advanced Practice: Rural Health Nursing
NURS 6612	Advanced Practice: Family Nurse Practitioner I
NURS 6613	Advanced Practice: Family Nurse Practitioner II
NURS 6247	Role Development for the Nurse Practitioner

Thesis Option 6 hours

NURS 7300	Thesis I (Proposal)
NURS 7301	Thesis II

Non-Thesis Option 3 hours

NURS 7302 Practice Intervention Project

Program Total 48 hours (non-thesis option)
51 hours (thesis option)

Course Descriptions

A listing of graduate courses offered by the Department of Nursing can be found in the Course Descriptions section of this catalog beginning on page 258.

OCCUPATIONAL THERAPY PROGRAM

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Ruelas, Jack, Clinical Assistant Professor
Schultz, Celia, Assistant Professor
Scoggin, Angela, Professor
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Mission

The fundamental mission of the Department of Occupational Therapy supports the mission of UTPA and College of Health Sciences and Human Services by preparing graduate-level professionals capable of meeting the challenges of health care and community environments, and the unique needs of the growing international and multicultural populations of the South Texas region. Faculty and students engage in and promote scholarly inquiry and service, which support the health and wellness of the community. The preservation, transmission and creation of knowledge result in exemplary and caring practice.

Educational Outcomes

Upon completion of the program, students will be expected to demonstrate the following competencies:

1. Graduates of the program will demonstrate creative problem solving abilities and caring professionalism.
2. Graduates of the program will demonstrate competency as an entry-level occupational therapist.
3. Graduates of the program will demonstrate the ability to integrate cultural and other contextual factors when interacting and treating clients.
4. Graduates will develop professional behaviors such as a positive approach to learning, respect for others, professional communication and ethical conduct.
5. Graduates will incorporate public health concepts into practice by being able to look beyond the individual and employ both individual and community programming.

Admission to the Master of Science in Occupational Therapy Program

The Occupational Therapy (OT) program considers for admission those applicants who possess the academic and professional promise necessary for development as competent, caring members of the health care community. To select these candidates a competitive admission framework has been established. Within this competitive admission framework, multiple criteria are used to select the most qualified candidates from an applicant pool that exceeds the number of seats available. Interested individuals are advised to complete their application as early as possible to ensure timely consideration.

Individuals applying for admission to the Master of Science in Occupational Therapy program must:

- Have a bachelor's degree from an accredited college or university by May 31 (or before) of the year you are applying. A degree in any area of study will be accepted.
- Complete all prerequisites within five years of the Jan. 31 application deadline. If prerequisites are not completed, then the application is considered incomplete and is not reviewed.
- Take all parts of the GRE within five years of the application deadline.
- Apply for admission to the UTPA Graduate School before applying to the Occupational Therapy program at www.utpa.edu/gradschool. This must be current.
- Apply to the OT program through the centralized Application Service for Occupational Therapy schools (OTCAS) online (<http://www.otcas.org>). All required materials must be completed and submitted online by the Jan. 31 application deadline.

- Provide three references (recommendations submitted through OTCAS). Indication of volunteer hours and/or work experiences (submitted through OTCAS).
- The applicant must provide a personal statement (submitted through OTCAS).
- Complete FERPA consent form submitted to the OT department.

No Admission Statement

An applicant not meeting the minimum graduate admission requirements for the University or the admission criteria for the graduate degree will not be admitted. Admission to the graduate program is not guaranteed. Applicants not admitted may follow the appeal process through the department chair or program director, dean, then the vice provost of graduate studies whose decision is final.

A. Graduate School Admission

Applicants must apply to the UTPA Graduate School online at www.utpa.edu/gradschool by the Jan. 31 application deadline.

In order to be admitted for the Master of Science in OT program, the student must first meet all requirements for admission to Graduate School (see page 18). Applications for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Please save your work until you are ready to submit. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

B. Master of Science in Occupational Therapy Application

The UTPA Occupational Therapy program uses the Centralized Application Service for Occupational Therapy Schools (OTCAS) for students applying to the program. All applicants to the Occupational Therapy program are required to submit their application to OTCAS (<http://www.otcas.org>) with all required materials by the Jan. 31 application deadline. Please refer to the OTCAS website for instructions on submission of the OTCAS application materials. Materials to be submitted to OTCAS include official transcripts, GRE score, letters of reference, and a personal statement.

C. Official Transcripts

Official transcripts of all college and university work must be submitted online through the OTCAS and directly to the Office of Graduate Admissions.

D. Prerequisite Courses

Applicant must show evidence of satisfactory completion of the following courses. Prerequisite courses completed more than five years prior to the Jan. 31 application deadline will not be considered.

Anatomy & Physiology I (lecture & lab)	4 credit hours
Anatomy & Physiology II (lecture & lab)	4 credit hours
Basic Statistics	3 credit hours
Psychology of Lifespan	3 credit hours
Abnormal Psychology	3 credit hours
Anthropology or Sociology	3 credit hours
Medical Terminology	1, 2, or 3 credit hours

- If there are questions about a prerequisite, fax or e-mail the course description, catalog description of course, or syllabus to the OT department. (Fax: (956) 665-2476 or e-mail occtherapy@utpa.edu). Be sure to provide your contact information.
- Waiver(s): A waiver and/or substitution of any required prerequisite course may be petitioned to the chair of the admission committee. You may do this by providing a written request for a waiver along with supporting documents – your contact information, a copy of the course catalog or syllabus and transcripts to the OT department. (Fax: (956) 665-2476 or e-mail occtherapy@utpa.edu).

A grade of D or F will not be accepted for any prerequisite courses.

Students may retake prerequisite courses. The grades for the courses will be averaged together if they are taken within the 5-year timeframe. If more than five years has elapsed then grades outside the five-year timeframe will not be averaged.

E. Graduate Record Examination (GRE)

The MS in Occupational Therapy program requires all parts of the GRE for all applicants. The GRE must be taken within five years of the Jan. 31 application deadline. There is no minimum score, but the applicant's score is factored into the overall evaluation of the application. The Office of Continuing Education offers an online GRE prep course to prospective graduate students at www.utpa.edu/ce.

F. Letters of Reference

Reference letters are to be submitted electronically through the online OTCAS application system (www.otcas.org). Please refer to the OTCAS website for instructions on submission of the OTCAS application materials.

Applicants are required to submit three letters of reference to OTCAS. If you have graduated in the last three years, this must include one academic reference. Letters from college or university instructors in your major from whom you have taken courses are preferred. Letters from such instructors, which are part of a college or university placement file, may be used if they address your potential for graduate study.

For those who have been out of college for three years or more, you may submit a reference from persons who have known and worked with you in a professional capacity. At least one reference concerning your employment or volunteer experience must be included. Appropriate recommendations include a reference from an immediate supervisor or another person to whom you have been responsible or who was familiar with your work.

Please note the statement concerning the Family Education Rights and Privacy Act of 1974 that appears on the top of each form. Please read this statement carefully and choose one of the alternatives offered.

G. Volunteer and/or Work Experiences

There is no set number of volunteer hours or work experiences that you need to complete in order to be considered for admission into the program. Nor are you required to complete hours in occupational therapy through work or observation. However, it is vital that you have been exposed to volunteer and/or work experiences. These are factored into the overall evaluation of the application. Your volunteer and/or work experiences are submitted through the OTCAS application.

H. Personal Statement (Statement of Purpose)

Applicant must submit a 1,000-word essay discussing his/her interest in occupational therapy. This essay must be typewritten, double spaced, and grammatically correct. Be sure to include your name on the cover page, and all subsequent pages. The statement must address all three parts of the questions as outlined as below:

Part I

- Why are you seeking a graduate degree in occupational therapy at this time? Why have you chosen to apply to the UTPA Department of Occupational Therapy?
- What specific career goals and aspirations do you have following graduation from the Master of Science in Occupational Therapy Program? Discuss your understanding of the occupational therapy professions, values and mission.

Part II

- Discuss the personal, vocational, and educational experiences that have helped define your choice of occupational therapy as a field of graduate study. Include all relevant practical and volunteer experience.
- Examine your personal strengths and challenges. Explain how your personal characteristics support, inhibit, and generally influence your ability to pursue graduate study and establish a career in occupational therapy. Discuss your understanding of and experience with diverse populations (beyond your cultural group).

Part III

- Discuss what you believe to be the most important current issues in health care and occupational therapy that are of interest to you and why.

I. International Students

Applicants for whom English is not their primary language must have a minimum score of 550 on the TOEFL.

J. FERPA Consent Form

The admissions committee is composed of OT faculty and occupational therapists from the community. Please sign the consent form allowing the OTs from the community to evaluate your application. If you do not wish to release your information, please indicate this on the consent form. This will not affect the evaluation of your application. Form may be downloaded from the MS in Occupational Therapy website at www.utpa.edu/ot. Signed form may be faxed to (956) 665-2476.

Application Process

To be considered for admission to the MS in Occupational Therapy program, applicants must submit the following:

- UTPA Graduate School completed application.
- The MS in OT Graduate School application must be current. A 2011 application may not be submitted for 2012. You must reapply. You may e-mail the department manager (occtherapy@utpa.edu) if you wish references from an old application to be forwarded to a new application.
- MS in OT completed application.

Applicants are required to submit their application to OTCAS. The Occupational Therapy department will send letters verifying receipt of the OTCAS applications with all required materials. Applicants are responsible for tracking the receipt of their application materials and ensuring submission of all required documents. Only applicants who submit completed applications with all required application materials will be considered for potential entrance into the program. A complete application contains:

- MS in OT application through OTCAS (www.otcas.org)
- Official transcripts
- Three online references (recommendations)
- All prerequisites completed within five years prior to the Jan. 31 application deadline.
- GRE scores for all parts completed within five years of the Jan. 31 application deadline.
- Personal statement
- Indication of volunteer hours and/or work experiences.
- FERPA consent form
- TOEFL of 550 (international students only)

- Bachelor’s degree must be conferred by May 31, before the program begins.

It is the student’s responsibility to make sure all documents are received by the application deadline.

Selection and Notification Process

The Occupational Therapy Admissions Committee meets as soon as possible after the deadline to review each application. If required, the chair of the admission committee notifies the applicant via phone or letter for an interview. Once selections have been made, the UTPA Graduate School will send notification to all applicants indicating whether or not they have been accepted. No information regarding the status of an applicant is given over the phone. Once a selection is made, the status of your application will be available online at www.utpa.edu/gradschool.

In keeping with the UTPA policy, the Occupational Therapy Admissions Committee does not discriminate against any individual on the basis of race, color, creed, religion, origin, sex, age, disability, veteran status, or previous major of college attended.

BE ADVISED:

Applicants who acknowledge a felony conviction should be aware that the National Board for Certification in Occupational Therapy (NBCOT) might bar persons with a felony record from taking the certification examination. The Texas Board of Occupational Therapy Examiners (TBOTE) may deny persons with a felony record a state license to practice. For information regarding their requirements for certification following graduation, please contact:

- National Board for Certification in Occupational Therapy (NBCOT) <http://www.nbcot.org>
- Texas Board of Occupational Therapy Examiners (TBOTE) <http://www.tbote.org>

The College of Health Sciences and Human Services requires a criminal background check before admission to the program.

Some personal information may need to be disclosed during the educational experience. For example, the information may be required by a clinical education site or licensing board. Prior notification will be given to the students.

Curriculum Degree Requirements

The Master of Science in Occupational Therapy is a 71-semester hour program.

Coursework includes:

Fall (Semester I)		
OCCT	6301	Human Occupation
OCCT	6302	Foundations of Occupational Therapy

OCCT	6303	Research Methods in Occupational Therapy
OCCT	6305	Clinical Anatomy and Biomechanics
OCCT	6204	Health Policy and Ethics

Spring (Semester II)

OCCT	6306	Clinical Neuroscience
OCCT	6310	Theories of Occupational Therapy
OCCT	6304	Systems Impacting Occupational Performance
OCCT	6313	Qualitative Research in Occupational Therapy
OCCT	6401	Intervention I - Psychosocial Health

Summer I (Semester III)

OCCT	6202	Health, Illness and Disability
OCCT	6102	Systems Analysis
OCCT	6101	Tools and Analysis in Occupational Therapy (10 weeks)
OCCT	6103	Practicum (10 weeks)

Summer II (Semester IV)

OCCT	6312	Evaluations and Assessments
OCCT	7101	Research Project (repeatable)

Fall (Semester V)

OCCT	7401	Intervention II - Pediatrics
OCCT	7301	Occupational Therapy Skills - Pediatrics
OCCT	7303	Population Based Research
OCCT	7101	Research Project (repeatable)

Spring (Semester VI)

OCCT	7402	Intervention III - Adults
OCCT	7304	Occupational Therapy Skills - Adults
OCCT	7302	Management of Occupational Therapy Services

Summer (Semester VII)

OCCT	7305	Field Studies in Occupational Therapy - A (repeatable)
		or
OCCT	7601	Field Studies in Occupational Therapy - B (repeatable)

Fall (Semester VIII)

OCCT	7305	Field Studies in Occupational Therapy - A (repeatable)
		or
OCCT	7601	Field Studies in Occupational Therapy - B (repeatable)

Course Descriptions

A listing of graduate courses offered by the Master of Science in Occupational Therapy program can be found in the Course Descriptions section of this catalog beginning on page 261.

PHYSICIAN ASSISTANT STUDIES

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Garza, Julie, MS, PA-C, Assistant Clinical Professor
Kuhn, Lisa, MMS, PA-C, Assistant Clinical Professor
and Academic Coordinator
Koo, Felix, M.D., Ph.D., Assistant Clinical Professor
and Clinical Coordinator
Tavarez, Hiram, M.D., Medical Director
Villarreal Jr., Elias, PA-C, Assistant Clinical Professor
and Director of Admissions
Runyan, Jack, PA-C, Ph.D., Assistant Clinical Professor

General Overview

The Master in Physician Assistant Studies (MPAS) prepares graduates with intelligence, sound judgment, intellectual honesty, appropriate interpersonal skills, and critical thinking skills. The graduate will be capable of medical patient assessment and developing a plan of action for addressing health concerns. The professional curriculum for PA education includes basic medical, behavioral and social science, introduction to clinical medicine, supervised clinical practice, and health policy and professional practice issues.



Prerequisites

Although the pre-professional course of study may be accomplished at any accredited junior college, senior college or university, it is preferred that all science courses be taken at a senior college and/or university. All prerequisite coursework must be completed by the application deadline for that year's admissions cycle. Coursework must include the following:

Science	Semester Credit Hours
Upper Level/Advanced/ Biology*	6
Organic Chemistry and/or Biochemistry with labs**	4
Microbiology with lab	4
Anatomy and Physiology with labs	8
Math	
Statistics	3
Humanities	
Introductory Psychology or Abnormal Psychology	3
Total Prerequisite Requirements	28

The following courses are considered. Botany courses will not be considered to fulfill prerequisites.

*Upper Level/Advanced Biology

Genetics
Cell Biology
Virology
Histology
Embryology
Medical Microbiology
Molecular Biology
Immunology

**Chemistry Requirement

(pick at least one course below)

Organic Chemistry I with lab
Organic Chemistry II with lab
Biochemistry I with lab
Biochemistry II with lab

Other courses with department permission

Note: Pass or credit grades will not be accepted for any science prerequisite course. Credit by examination is accepted for statistics and psychology only. All prerequisite science courses must be taken for science majors. Science courses taken for non-science majors will not be accepted. Anatomy and physiology with a HUMAN focus is preferred.

Note to applicants with foreign coursework: Every applicant must meet ALL prerequisite requirements. No prerequisite course waivers or substitutions will be granted. All matriculants must complete the entire professional curriculum.

Advanced Placement and Transfer Credit

Advanced placement and waiver of courses in the professional curriculum are not available to applicants or enrolled students in the department. All students and applicants must complete the entire professional curriculum in residence at UT Pan American. The Physician Assistant Studies department does not admit students from other physician assistant studies programs. All currently or formerly enrolled physician assistant students at other physician assistant programs must participate in a competitive admissions process along with all other applicants.

NOTE: The above prerequisites represent the minimum prerequisite courses and hours. Classes begin annually every fall semester.

The Admissions Process

Phase I: The Application

Online Application: The application to UTPA's graduate programs can be completed online at www.utpa.edu/gradapply.

Application Fee: The University application fee of \$50 can be paid online by credit card or electronic check (in the online application) or in the form of money order or check and sent to the Office of Payments and Collections. In the case of money order or check, the applicant is responsible for submitting a copy of the receipt to the Graduate Studies office for documentation. All application fees are nonrefundable.

Official Transcripts*: Official college transcripts are to be sent to the Graduate Studies office directly from all the institutions attended. If the applicant attended UTPA at any time, those official transcripts will be handled by the Graduate Studies office; however, the applicant is responsible for requesting official transcripts to be sent directly from all other institution(s).

*Transcripts must be sealed and sent directly from the institution to be considered official. Transcripts will be considered unofficial if they are hand delivered by the applicant or third party regardless if sealed by the institution. Failure to submit a complete/correct application and official transcripts from all institutions attended will result in one of the following: rejection of application, withdrawal of admission offer or disciplinary action including expulsion if the student is enrolled. All submitted documents become the property of UTPA and will not be returned. Admission documents will remain on file for one year if the applicant does not attend the University. Documents will be retained for seven years for students enrolled in a master's level program and for 10 years for students enrolled in a doctoral program. Please review the Student File Retention Schedule for more details.

Central Application Service for Physician Assistants (CASPA) application <http://www.caspaonline.org>

Fifty hours of shadowing experience are required and MUST be documented on the CASPA application experience section. Shadowing is accepted from MD/DO, PA or NP providers only. Shadowing accomplished as an extracurricular activity is preferred. Shadowing while on the job or as part of an educational requirement is not considered ideal.

Application deadline is Oct. 1.

Note: Applicants must submit all application documents and materials for both applications (CASPA and Graduate School) by the Oct. 1 deadline. Applicants may register for and complete prerequisites during the fall semester in which they are applying. Prerequisites taken during the spring semester (after the deadline) will not be accepted. A bachelor's degree or its equivalent is required and must be conferred no later than the semester before beginning the physician assistant curriculum.

Phase II: The Admissions Process

Meet minimum Graduate School requirements

All applicants must first apply to the Graduate School online. Applicants meeting the minimum requirements for entry into the Graduate School will be forwarded to the Physician Assistant Program for further review.

CASPA Application Review

Applicants meeting the minimum requirements for entry into the Graduate School will be considered for CASPA application review. CASPA applications for applicants' not meeting Graduate School criteria will not be reviewed.

The basis for inviting an applicant for interview is competitive. GPA's > 3.0 in the sciences and last 30 hours are most competitive. Offers of invitation for interview consider the applicant's academic performance represented by coursework, grades, and GPAs. In addition, application review includes, but is not limited to, consideration of non-academic qualifications listed below (listed in no particular order of preference or importance):

1. Awards and honors
2. Health care experience
3. Knowledge of and commitment to the PA profession
4. Leadership
5. PA shadow time
6. Primary care/South Texas-oriented
7. Research background
8. Scholastic achievements
9. Service/volunteerism
10. Work experience

Phase III. Interview

The PA program grants admissions interviews by invitation only. Applicants are selected for interviews based on a holistic evaluation of the entire application and supporting materials. Approximately 80-120 applicants or more are invited for an interview. The interview includes questions to assess the applicant's knowledge of the PA profession, motivation and commitment, maturity, intellectual curiosity, interest patterns, interpersonal skills and academic history.

Phase IV. Admissions Committee Decisions

At the conclusion of all interviews, the admissions committee (comprised of the PA program faculty, medical director, local medical providers and UTPA administration) meets to review all applicants who were interviewed. The admissions committee will forward their selections to the Graduate School for approval and official notification.

Professional Course of Study

The professional curriculum, six semesters in length, begin each fall:

Didactic Year	Hours
Medical Human Anatomy	3
Medical Interviewing	2
Medical Physiology & Pathophysiology I	3
Pharmacology I	3
Patient Evaluation	4
Principles of Clinical Medicine I	3
Medical Physiology & Pathophysiology II	3
Pharmacology II	2
Preventive Medicine & Community Health	2
Clinical Laboratory Methods	2
Clinical Clerkship	2
Patient Education	2
Principles of Clinical Medicine II	3
Research & Statistical Methods in Health Care	1
Studies in PA Profession	2
Evidence-Based Medicine & Medical Research Design	1
Radiology Seminar	1
Health Policy & Health Management	1
Clinical Laboratory Interpretation	1
Legal & Ethical Issues in Health Care	2
Medical Psychiatry	2
Electrocardiography Seminar	1
Introduction of Clinical Practice	1
Total Didactic Year	48
Clinical Year Hours	
Pediatric Rotation I	4
Pediatric Rotation II	4
Obstetrics & Gynecology Rotation	4
Surgery Rotation I	4

Surgery Rotation II	4
Medicine Rotation II	4
Medicine Rotation II	4
Emergency Medicine Rotation	4
Clinical Elective Rotation	4

Total Clinical Year	36
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Capstone Year	Hours
Capstone Clinical Track I	4
Capstone Clinical Track II	4
Capstone Clinical Track III	4
Capstone Research Experience	2
Capstone Board Review	2
Total Capstone Year	16

Upon successful completion of academic and clinical training requirements, the student is conferred the degree of Master of Science in Physician Assistant Studies.

The curriculum meets and exceeds the requirements outlined in the Essentials of an Approved Educational Program for the Assistant to the Primary Care Physician established by the Accreditation Review Commission on Education for the Physician Assistant. Graduates of the program are eligible to apply for membership in the American Academy of Physician Assistants or other nationally recognized organizations representing the physician assistant and to sit for the Physician Assistant National Certifying Examination. Successful completion of the examination leads to certification by the National Commission on Certification of Physician Assistants and is accepted by the many states as proof of competency.

The Bridge Program

Description of Degree (Bridge to the Master's Program)

The Bridge Master of Science in Physician Assistant Studies is designed for the graduate physician assistant to advance their undergraduate PA degree to the master's degree. This is a distance learning/online program, allowing graduates to continue working while earning their master's.

Specific Degree Requirements (Bridge to the Master's Program)

In addition to domestic or international application requirements, this program requires the following:

- Two letters of recommendation from academic and/or professional sources
- Personal statement (letter) detailing reasons for pursuing the graduate degree and professional goals
- Current license as a physician assistant (copy of license required)
- NCCPA certified
- Proof of medical malpractice insurance

Program Application Deadline Dates (Bridge to the Master's Program)

Fall Semester: Aug. 1
Spring Semester: Nov. 1

NOTE: Bridge Program courses are only for those who have already completed a degree in physician assistant studies.

Course Descriptions

A listing of graduate courses offered by the program in Physician Assistant Studies Program can be found in the Course Descriptions section of this catalog beginning on page 199 (CLSC) and page 263 (PHAS)

REHABILITATION

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Chair

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Graduate Faculty
Blankenship, Charlene, Associate Professor
Chen, Roy, Associate Professor
Gonzalez, René, Assistant Professor
Graf, Noreen, Professor
Hansmann, Sandra, Associate Professor
Marini, Irmo, Professor
Miller, Eva, Associate Professor
Reed, Bruce, Professor
Reid, Charles R., Associate Professor

Saladin, Shawn, Associate Professor
Shefcik, Tom, Associate Professor

Purpose

The Master of Science in Rehabilitation Counseling at The University of Texas-Pan American was designed as a direct result of the expressed need for professionally trained rehabilitation counselors in the growing Rio Grande Valley, the state of Texas, and across the nation. The degree is offered by the Department of Rehabilitation in the College of Health Sciences and Human Services. The program focuses on an integration of theory, skill and practice in counseling, and specializing in working with persons with disabilities. Students are prepared with the education needed to successfully function as a professional rehabilitation counselor and are required to complete a 100-hour supervised practicum and a 600-hour supervised internship to learn and practice the necessary skills to work as a professional counselor. The master's degree is a minimum 48-semester hour program with a thesis or research grant option.

Mission and Objectives

The Master of Science in Rehabilitation Counseling is designed to meet a growing demand for professionally trained counselors in public and private rehabilitation agencies, mental health centers, schools, substance abuse centers, vocational rehabilitation agencies, and in medical case management. The program philosophy is to assist and empower persons with disabilities in adjusting/adapting to their vocational and personal lives.

The major objective of the master's degree is to prepare students for a profession in rehabilitation counseling by providing classroom and experiential skills development in individual and group counseling, vocational assessment, job analysis and placement, medical and psychosocial aspects of disability, case management, research in rehabilitation, and psychiatric rehabilitation.

The master's degree in rehabilitation counseling at UTPA is nationally accredited by the Council on Rehabilitation Education (CORE) and adheres to the curriculum goals and objectives defined by these national standards. As such, students who successfully complete the requirements of this program are immediately eligible to sit for the certifying exam as a Certified Rehabilitation Counselor (CRC).

Additionally, students may complete the appropriate coursework needed for the Licensed Professional Counselor (LPC).

Admission to the 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. Students must follow the formal procedures for application to the Office of Graduate Studies. It is the student's responsibility to read the requirements regarding admission deadlines, transfer credit from other programs, conditional status entry and other pertinent information. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. For clear admission to study in the Rehabilitation Counseling program, students must have a 3.0 GPA in the last 60 hours of study.
3. Students with less than a 3.0 GPA may be granted conditional admission. Students admitted under 2.8 GPA cannot enroll for more than 12 hours of graduate study and must have no grade lower than a B to continue the following semester. If a student obtains passing grades of B or better in nine hours of graduate study with no grade less than a B, his or her status will be changed to clear admission.
4. Deadlines for graduate admission are as listed in this catalog. The deadline for the program is April 7 for Summer I and fall admission and Nov. 7 for spring admission.

Procedures for Applying to the Master of Science in Rehabilitation Counseling Program

In addition to the requirements for admission to Graduate School, the following information for admission to study in the Master of Science in rehabilitation counseling must be submitted with the online application. The deadlines for the Rehabilitation Counseling program are Nov. 7 for spring admission and April 7 for summer/fall admission.

Submit online a double-spaced, two-page typed essay as to why you want to pursue a master's degree in rehabilitation counseling and become a counselor. Applicants must include educational and career goals as well as any other pertinent personal characteristics deemed appropriate. Submit online two recommendations, one of which should be from a professor and the second from an employer or supervisor.

Official college transcripts are to be sent to the Graduate Studies Office directly from all the institutions attended. If the applicant attended UTPA at any time, the Graduate Studies Office will handle those official transcripts; however, the applicant is responsible for requesting official transcripts to be sent directly from all other institutions.

Curriculum Degree Requirements

The Master of Science in rehabilitation counseling is a 48-semester hour program.

Coursework includes:

Required Courses		42 hours
REHS 6300	Introduction to Rehabilitation Foundations	
REHS 6310	Case Management in Rehabilitation	
REHS 6315	Research in Rehabilitation	
REHS 6320	Psychosocial Aspects of Disability	
REHS 6325	Group Counseling in Rehabilitation	
REHS 6330	Assessment and Vocational Evaluation	
REHS 6345	Medical Aspects of Disability	
REHS 6350	Job Placement Theories and Methods	
REHS 6360	Counseling Theories in Rehabilitation Counseling	
REHS 6370	Techniques in Rehabilitation Counseling	
REHS 6375	Psychiatric Rehabilitation	
REHS 6390	Practicum (100 hours)	
REHS 7600	Internship (600 hours)	
Electives		6 hours
REHS 6380	Special Topics in Rehabilitation	
REHS 7100	Independent Study	
REHS 7300	Thesis	
REHS 7301	Advanced Thesis	
REHS 7302	Research Grant Project	
REHS 7303	Advanced Research Grant Project	
Total		48 hours

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 adviser.

Required Practicum and Internship Experience

A minimum 100-hour supervised practicum and 600-hour supervised internship is required of all master's students in rehabilitation counseling. This field-based practical experience provides students with the opportunity to select and work for one semester in an approved rehabilitation setting. The practicum may be taken only after completion of REHS 6360 and REHS 6370. 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

All candidates for graduate degrees of the Rehabilitation Counseling program are required to take a Comprehensive Examination covering aspects of the student's academic program.

Comprehensive Examination requirements may be satisfied in one of two ways:

1. Passing the Certified Rehabilitation Counselor (CRC) Examination.
2. Passing the Department of Rehabilitation MS Comprehensive Examination.

Master's degree candidates must inform the MS graduate program coordinator of their intent to take the CRC Examination or the Department of Rehabilitation MS Comprehensive Examination at the beginning of the semester they intend to write. Students opting to take the CRC Examination can obtain information on examination dates, examination locations, study guides, and scores required to pass the examination at:

Commission on Rehabilitation Counselor Certification
(CRCC)

1699 East Woodfield Road, Suite 300
Schaumburg, Illinois 60173
Telephone: (847) 944-1325
Web: <http://www.crccertification.com>

Students who fail the CRC Examination will be given the option of taking the Department of Rehabilitation MS Comprehensive Examination. The Department of Rehabilitation MS Comprehensive Examination is offered three times (fall, spring and summer) each year and examination dates are posted on the Rehabilitation Counseling program bulletin board as well as the MS graduate program coordinators office door. Specific requirements for eligibility to sit for and pass the examination are contained in the master's degree student handbook.

Graduate Thesis Option

Students considering pursuing a doctoral degree and other students interested in conducting research are encouraged to complete the thesis option. Early in a student's program, he/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, it generally involves two semesters of adviser-supervised independent study. Students must

enroll for a minimum of six hours of thesis. Students must also orally defend their thesis upon its conclusion. A thesis handbook describing UT Pan American's policies, guidelines and requirements must be purchased and is available at the University Bookstore.

Certification and Licensure

The Certified Rehabilitation Counselor (CRC) is a professional rehabilitation counselor who has met the educational and work experience requirements as set forth by the national standards developed by the Council on Rehabilitation Education (CORE). Students who intend to seek employment in the public sector with state vocational rehabilitation as well as private sector vocational rehabilitation (Workers Compensation) are strongly encouraged to obtain this credential upon completing their degree requirements. For more information contact the Commission on Rehabilitation Counselor Certification (CRCC) at 1699 East Woodfield Rd., Suite 300, Schaumburg, IL 60173; phone: (847) 944-1325; web: <http://www.crccertification.com>.

The Texas Legislature has designated the Texas Board of Examiners of Professional Counselors as the licensing body for counselors in Texas who want to pursue a career as a Licensed Professional Counselor (LPC). Licensing as a generic counselor with a specialty as a rehabilitation counselor is available. Any person practicing counseling activities and claiming the credentials of LPC is required by law to submit appropriate credentials for evaluation and take an examination before associate (LAC) recognition is granted. Students in the UTPA Rehabilitation Counseling program can acquire the necessary academic courses to sit for the LPC exam; however, they must also complete 3,000 hours of internship or employment under the supervision of an LPC.

Doctor of Philosophy (Ph.D.) in Rehabilitation Counseling

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Mission and Scope

The Ph.D. in Rehabilitation Counseling is a 66-hour degree program designed to meet the critical shortage of rehabilitation educators, administrators, and qualified rehabilitation counselors across the nation. The program is designed to provide students with a didactic learning experience, combining theory and applied practice in advanced rehabilitation counseling. Students will acquire skills in conducting research and publication, teaching in-class and online, grant writing and grant management, and select from a variety of specialized advanced electives in rehabilitation counseling. The capstone experience in the Ph.D. will be to conduct original research by completing and successfully defending a dissertation.

Admission to the Ph.D. Program

To be considered for admission to the Ph.D. in Rehabilitation Counseling program at UTPA, the student must first meet all requirements for admission to the Graduate School of UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Admission Criteria

Admission eligibility to the Ph.D. in Rehabilitation Counseling includes the following:

- A GPA of 3.25 or higher in a student's graduate program.
- GRE scores.
- Official transcripts of all graduate coursework.
- Recommendations from three former professors and/or employers completed through the online recommendation section of the application.
- At least two years of work experience with people with disabilities performed concomitantly while earning a master's degree or postgraduate experience.
- Interview with faculty regarding the applicant's personal, social and academic attributes.
- Earned graduate degree from an accredited institution in rehabilitation counseling or a related field to rehabilitation counseling (may require foundation courses).
- Three-page double-spaced typed essay as to why you would like to obtain a Ph.D. in Rehabilitation Counseling.

All applications are reviewed by the Department of Rehabilitations graduate faculty. Deadline for application each year is March 31. Incomplete applications will not be reviewed. Successful applicants will be notified by late April.

Foundation Coursework

All students entering the Ph.D. program are required to have a rehabilitation counseling foundation. This foundation may be achieved by holding a master's degree in rehabilitation counseling from a CORE accredited institution. Students with a master's degree in a related discipline will need any deficiency in the foundation coursework removed before the student enrolls in doctoral-level work. Students with related degrees will most likely have taken similar coursework that will be equivalent to the required foundation courses. Foundation courses include the following:

REHS	6300	Introduction to Rehabilitation Foundations
REHS	6310	Case Management in Rehabilitation
REHS	6320	Psychosocial Aspects of Disability
REHS	6325	Group Counseling in Rehabilitation
REHS	6345	Medical Aspects of Disability
REHS	6360	Counseling Theories in Rehabilitation Counseling
REHS	6370	Techniques in Rehabilitation Counseling
REHS	6375	Psychiatric Rehabilitation
REHS	6390	Practicum (100 hours)

Students with a related master's degree will have their prior coursework evaluated to determine the foundation courses that will need to be completed.

Ph.D. Degree Requirements

The Ph.D. degree is a minimum 66-hour degree program. The precise number of hours depends on the program designed by the student and his or her program advisory committee as well as by the length of time required to complete the dissertation. The 66 hours include:

Core Courses	24 hours
Research Courses	12 hours
Dissertation	12 hours
Electives	12 hours

Coursework for the Ph.D. program is structured such that students may attend all semesters including summers if desired. For full-time students, this equates to six consecutive semesters of coursework followed by the dissertation in year three. Full-time students can graduate after a minimum of three years if they are diligent in completing their dissertation. Upon completion of substantial coursework and before beginning the formal dissertation, students must successfully pass a preliminary exam covering all relevant

rehabilitation counseling coursework.

Residency Requirements

Each student must complete a residency as a full-time student consisting of a minimum of two consecutive long semesters with a minimum of nine hours in each semester.

Dissertation

The Ph.D. in Rehabilitation Counseling requires students to complete a dissertation. The manual that details University requirements for the format and submission of the dissertation are available at the bookstore or the Graduate School website. The student will also need to follow departmental guidelines for the development and completion of the dissertation.

Maximum Period for Completion

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

Financial Support and Assistantships

The University has limited funds available exclusively for Ph.D. students. Assistantships are made on a competitive basis. Incoming applicants requesting assistantships from the Department of Rehabilitation should submit their request with their application materials. Academic performance will be reviewed each year to ensure that the student is making satisfactory progress. The chair of the Department of Rehabilitation will make final determination regarding assistantships, and will notify continuing students of the timelines for renewing or applying for assistantships. At a minimum, the student must be in good academic standing, enrolled in nine hours or more as a graduate student during the fall and/or spring semester. The maximum amount of time allowed for assigned teaching and research duties is 20 hours per week. Students should contact UT Pan American's Student Financial Services to determine if other sources of financial aid are available. The Department of Rehabilitation may also have a limited number of competitive scholarships from the Rehabilitation Services Administration. Students are encouraged to contact the Ph.D. program coordinator regarding the availability of these scholarships and the payback criteria.

Course Descriptions

A listing of graduate courses offered by the program in rehabilitation counseling can be found in the Course Descriptions section of this catalog beginning on page 274.

Social Work

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Department Chair

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Barrera, Iran, Assistant Professor
Cavazos, Alonzo, Professor
Diaz, Héctor Luis, Professor
Faver, Catherine, Professor
Feldman, Janis, Associate Professor
Ramirez, Noe, Associate Professor
Rombough, Shirley, Associate Professor

Mission Statement

The Department of Social Work is committed to preparing entry-level generalist (BSWs) and advanced professional social workers (MSSWs) to meet the needs of a binational and multicultural community. The program has two concentrations: a micro practice concentration – Direct Practice with Latino Individuals, Families and Groups, and a macro practice concentration – Administration and Community Practice. The program emphasizes multicultural awareness, professional competence, ethical practice, knowledge building acquisition, and social services that promote social and economic justice in a binational

environment. The department aims to meet the mission statement through the goals and objectives that guide the curriculum.

Program Goals and Objectives

The Department of Social Work at UT Pan American designed its Master of Science in Social Work (MSSW) program to meet the social service needs of the population the programs graduates will serve, and to meet the requirements of the Council on Social Work Education (CSWE) Educational Policy and Accreditation Standards.

The mission of the Department of Social Work is closely bound to the mission of the University and College. As part of its mission, the University is committed to “serve the higher education needs of South Texas.” The College of Health Sciences and Human Services mission statement includes: “The College is committed to enhancing the quality of life and health care in the lower Rio Grande Valley binational border community and region.”

The Department of Social Work fulfills its mission through its educational programs and the delivery of social services and programs by faculty and students. The department’s mission and the program objectives provide the rationale for the Master of Science in Social Work program and for the course objectives and content. These program purposes are articulated in the objectives and syllabi of the specific courses offered, in orientation and admission programs, in the Graduate Catalog, admission guidelines, student handbook and field instruction manual, and in faculty advisement.

The social work master’s program seeks, as its major general objective, to prepare competent and effective social work professionals for advanced social work practice with Latino individuals and families who are guided by social work values and ethical principles.

Graduates are expected to be knowledgeable, skilled and committed to work in the economic and cultural milieu of South Texas, and to understand, relate to, and communicate with, as well as appreciate, the diverse character and culture of these people, as well as of human beings in general.

Graduates articulate and manifest a liberal arts perspective, serve disadvantaged, vulnerable and oppressed populations and advocate for conditions that ameliorate poverty, oppression, dependency, abuse, violence, social and economic injustice, and all forms of discrimination.

Graduates understand and work with varied client family groups and systems, utilizing a generalist and family-focused ecosystem, strengths perspective, with an appreciation of systemic relationships between direct practice, social welfare policies and programs. They are expected to be competent in a professional evaluation of their practice, with an instrumental degree of self awareness. They value the importance of research in practice and can apply appropriate research findings in their practice and contribute meaningfully to research projects.

Finally, graduates provide effective social services, promote equitable social welfare policies and contribute

to the advancement of social and economic justice and the development of a responsive and just society.

The curriculum of the program is designed to achieve these objectives and outcomes through departmental policies, procedures and educational programs and facilitative relationships and activities between faculty, students and the community. The curriculum also gives emphasis to the implementation of affirmative action and non-discriminatory policies and guidelines.

The objectives and curriculum content of the master’s program mesh with the missions of the University, college and department, which strive to educate competent graduates who are dedicated to serving residents of the Rio Grande Valley and other regions throughout Texas and the nation.

Department faculty develop knowledge through scholarship and research activities that focuses on the needs of Hispanic/Latino low income populations in this area and provides research instruction that helps students to contribute to such knowledge. The department prepares social work practitioners to serve this population and to serve in the public and private social welfare systems.

The MSSW Curriculum

The Master of Science in Social Work (MSSW) program is accredited by the Council on Social Work Education. The master’s in social work is a 63-hour degree consisting of 33 hours of professional foundation courses and 30 hours of advanced professional social work courses.

The foundation curriculum consists of three hours of introduction to professional social work, nine hours of generalist social work practice, three hours of diversity, six hours of human behavior and the social environment, three hours of research design and analysis, three hours of social welfare policy, and six hours of field education.

The curriculum of the Direct Practice concentration consists of six hours in advanced family practice, three hours in social work practice with Latinos, three hours in advanced clinical assessment, three hours in advanced policy analysis and development, three hours in advanced practice with individuals, three hours in advanced practice with groups, six hours of concentration practicum, and three hours of electives.

The curriculum of the Administration and Community Practice concentration consists of three hours in social work practice with Latinos, six hours in the area of macro assessment and evaluation, three hours in advanced practice with organizations, three hours in advanced practice with communities, three hours in advanced policy analysis and development, six hours of macro practicum, and six hours of electives. In addition to full-time study, extended study options are available for the 33-hour advanced standing

program and the 63-hour program. The 33-hour advanced standing program can be completed in a two-year extended study period. Similarly, the 63-hour program can be completed in a four year extended study period.

Degree Plan - MSSW (63-hour program)

Foundation Curriculum - 33 hours

SOCW 63003	Human Behavior and the Social Environment I: Individuals, Families and Small Groups	
SOCW 63013	Human Behavior and the Social Environment II: Social Institutions, Communities and Organizations	
SOCW 6302	Social Welfare Policy	3
SOCW 6311	Social Work as a Profession	3
SOCW 6315	Social Work with Diverse Populations	3
SOCW 6321	Generalist Social Work Practice I	3
SOCW 6322	Generalist Social Work Practice II	3
SOCW 6323	Generalist Social Work Practice III	3
SOCW 6381	Social Work Research Designs and Application	3
SOCW 6670	Field Practicum (400 hours)	6
	or	
SOCW 6370	Field Practicum (200 hours) and	3
SOCW 6371	Field Practicum (200 hours)	3

Direct Practice Concentration Curriculum - 30 hours

SOCW 6330	Advanced Family Practice I	3
SOCW 6331	Advanced Family Practice II	3
SOCW 6332	Social Work Practice with Latinos	3
SOCW 6335	Advanced Clinical Assessment	3
SOCW 6342	Advanced Policy Analysis and Development	3
SOCW 6350	Advanced Social Work Practice with Individuals	3
SOCW 6351	Advanced Social Work Practice with Groups	3
SOCW 6376	Concentration Practicum	3
SOCW 6377	Concentration Practicum	3

Electives 3

Administration and Community Practice Concentration Curriculum - 30 hours

SOCW 6332	Social Work Practice with Latinos	3
SOCW 6336	Advanced Macro Assessment	3
SOCW 6340	Advanced Social Work Practice with Organizations	3
SOCW 6341	Advanced Social Work Practice	

		with Communities	3
SOCW 6342	Advanced Policy Analysis and Development		3
SOCW 6380	Accountability and Evaluation in Macro Practice		3
SOCW 6378	Macro Practicum (250 hours)		3
SOCW 6379	Macro Practicum (250 hours)		3

Electives 6

Degree Plan - MSSW

(Advanced Standing Program - 33 hours)

SOCW 6315	Social Work with Diverse Populations	3
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Plus all the courses and field education experiences of the selected concentration as listed above under the 63-hour degree plan.

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.

Graduates of the Master of Science in Social Work will be eligible to take the state examination to become a licensed social worker.

Requirements for Clear Admission

In order to be admitted to the program, the student must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission to the University must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

1. A bachelor's degree from an accredited college or university.
2. A cumulative GPA of 2.75 or better on a 4.0 scale.
3. Successful completion of an undergraduate course in statistics
Applicants must attach or request the following through their online application:
4. Three letters of recommendation from persons who can evaluate ability and potential for graduate education and professional social work practice.
5. Leadership ability, motivation, personal maturity and English writing proficiency as demonstrated in a personal narrative statement.

NOTE: Students whose undergraduate degree is from a

social work program accredited by the Council on Social Work Education (CSWE) may apply to the Advanced Standing Program.

Conditional Admission

Conditional admission to the 63-hour MSSW program may be granted to applicants who have GPAs less than 2.75 only if they are approved for probationary admission to the University graduate school. Conditional admission will become clear admission after the first semester of graduate work is completed with a GPA of at least 3.0., with no outstanding incomplete grades.

Advanced Standing

Applicants who possess a Bachelor of Social Work degree from a program accredited by the Council on Social Work Education (CSWE) may qualify for advanced standing and receive a waiver of up to 30 hours of academic credit for professional foundation courses. The advanced standing curriculum consists of 33 hours. Applicants who wish to be considered for advanced standing must meet the following admissions requirements:

1. Clear admission to graduate study at UT Pan American.
2. GPA of 3.2 or higher on a 4.0 scale in social work core undergraduate courses.

Admission Committee Review

All applications will be reviewed by the Department of Social Work MSSW Program Admissions Committee. The committee is responsible for the selection of the individuals who are admitted into the master's in social work 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 281.





COLLEGE OF SCIENCE AND MATHEMATICS

General Overview

The College of Science and Mathematics provides a strong scientific and technical foundation for all students of UT Pan American. Known for its top quality research programs involving undergraduate, graduate students and faculty in all areas of science and mathematics, the college is also recognized for its strong teacher preparation program in science, mathematics, and technology. Many of our students have gone on to careers as K-12 teachers, faculty at community colleges, or have attended graduate school.

Consisting of the Departments of Biology, Environmental Science, Chemistry, Mathematics, and Physics and Geology, the college also includes the Coastal Studies Lab, located on South Padre Island, Texas, which focuses its research on the coastal ecosystems of southern Texas and northern Mexico.

In addition to providing undergraduate research opportunities alongside first-rate faculty in research labs, the College of Science and Mathematics prepares students for admission to schools of dentistry, pharmacy, and medicine. We take pride in our students and strive to make their graduate career in science and mathematics a memorable and enlightening experience.

Academic Programs

The College of Science and Mathematics offers the Master of Science in biology, chemistry, and mathematics. The mathematics graduate program offers concentrations in mathematics teaching and mathematical sciences. The college also offers interdisciplinary studies programs in physics education and chemical education. In addition, the college provides several graduate support courses for students in graduate programs in other colleges.

Mission

The College of Science and Mathematics supports the mission statement of The University of Texas-Pan American by committing to excellence in instruction, student performance, research, scholarly accomplishment, and professional service, and by promoting the expansion of national and international emphasis in all major areas of institutional endeavor.

Dr. John Trant, Dean

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Brush, Timothy, Professor
DeYoe, Hudson, Associate Professor
Dirrigl, Frank, Assistant Professor
Edwards, Robert J., Professor
Farooqui, Mohammed Y. H., Professor
Faulkes, Zen, Associate Professor
Feria, T. Patricia, Assistant Professor
Fredensborg, Brian, Assistant Professor
Judd, Frank W., Research Professor
Kuang, Anxiu, Associate Professor
Lieman, Jonathan, Assistant Professor
Lowe, Kristine, Assistant Professor
Materon, Luis A., Associate Professor
McDonald, Andrew, Assistant Professor
Persans, Michael W., Associate Professor
Schuenzel, Erin, Assistant Professor
Summy, K. Rod, Associate Professor
Terry, Matthew, Assistant Professor
Vitek, Chris, Assistant Professor
Zaidan, Frederic, III, Associate Professor

General Overview

The Department of Biology offers courses leading to a Master of Science in biology and provides minor and support areas for degrees in other fields. Credit for a 5000-level course is not given to a student with previous undergraduate credit in a similar course. Only 15 hours of 5000-level courses may count toward a graduate degree.

Students pursuing a master's degree in related fields can include 12 to 18 hours of work in biology. Students pursuing the non-thesis option for the Master of Science with a major in biology can include up to nine hours of work in an approved minor or support area.

Entry Requirements for Biology Master's Program

The following are required for consideration to join the Biology Master's Program. Multiple factors are considered in the decision to admit new graduate students. Meeting minimum entry requirements does not guarantee acceptance into the program.

The student must first meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at <http://www.utpa.edu/gradschool>. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

- An applicant must have 24 hours of undergraduate courses in biological sciences or closely related disciplines, with 12 hours at the 3000/4000 level (third/fourth year) or equivalent. An applicant must have completed at least three hours in each of the following categories: evolution and genetics, molecular and cell biology, organismal and environmental biology, and physiology. Students may take up to nine hours of leveling work to fulfill this requirement and must take and complete such courses the first time they are offered. b. A GPA of 3.0 (based upon a 4.0 system) in 3000/4000 level (third/fourth year) undergraduate courses in biological sciences or closely related disciplines is required for clear admission to the Biology Master's Program. Successful applicants with a GPA lower than 3.0 on this measure may be given conditional admission.
- A GRE general test score sent directly to UT Pan American from the testing agency.
- Applicants with education from foreign institutions: Evaluation of credentials may be requested as part of an application. The official credential evaluation service for The University of Texas-Pan American is Foreign Credentials Service of America (<http://www.fcsa.biz>). Credentials evaluated by other means will not be considered. Credential evaluation is done at the applicant's expense.
- Interview: Upon invitation, conduct an interview (in person, phone interview, or other means) with

members of the Biology Graduate Committee.

- Thesis option: A graduate faculty member must serve as the chair of the student's graduate committee (i.e., thesis adviser). The prospective thesis adviser should provide the graduate program coordinator with evidence that they have a means to support the graduate student (including e.g., anticipated teaching assistantships or research assistantships in the department) if support is necessary. A student may later change thesis advisers. Non-thesis students also need a graduate committee to complete this program and must find a committee chair (i.e. adviser) within 16 weeks of beginning the program. Applicants must attach the following through their online application:
 - A one- to two-page personal statement describing your academic and career goals, which states whether you are pursuing the thesis or non-thesis option.
 - Two letters of recommendation sent directly to UT Pan American from the referees.

Applications are reviewed by multiple members of the Biology Graduate Committee, who then recommend whether or not to accept an application.

Supporting documents from referees, institutions or agencies will only be accepted when received from them under separate cover. Supporting documents should be sent to The University of Texas-Pan American Graduate Office unless other arrangements are made. Candidates may submit additional or supplementary documentation (e.g., GRE Subject Test Score, CV).

Application information and status is confidential. All applicants will be informed of the status of their application after a decision has been made.

Enrollment While Completing Leveling Work

The following courses may be taken while enrolled in leveling work:

Biology 6101	Biology Graduate Seminar (must be completed three times)
Biology 6305	Biometry
Biology 6365	Graduate Biological Research Problems

General Degree Requirements

1. Preliminary Oral Assessment – By the end of a student's first semester, the student's graduate committee will administer a preliminary oral assessment to determine the student's understanding of general biological principles. This helps to ensure that the student has the background knowledge necessary to complete academic coursework required for a master's, and to ensure that a thesis student has the knowledge necessary to complete thesis research. Students are expected to be familiar with the following subject areas and related concepts of biology: the role of DNA in inheritance and trait expression, evolution, diversity of living organisms, organ systems, ecology,

structure/function relationships, and scientific methodology. Students should be able to discuss many of these topics at a level of complexity at least equal to that presented in introductory biological textbooks (e.g., those used in BIOL 1401 and 1402). Thesis students will also be assessed on their knowledge of the field in which they are conducting research; for example, background knowledge of their research organism(s) and appropriate methodologies. Students are encouraged to consult with their committee members before the assessment to discuss what sort of topics may be covered in the assessment. Students and committee members should allow not less than one hour and up to three hours to complete a preliminary oral assessment. The outcome of the assessment will be used to formulate or revise (if necessary) a student's degree plan. For this reason, it is strongly recommended that a student hold a preliminary oral assessment before submitting a degree plan. The student's performance on this assessment will help the student's committee in formulating recommendations for the degree plan and for removing deficiencies. If deficiencies or weaknesses in basic biology are apparent, the student's committee can recommend a course of action for the student to remove the deficiencies. Students do not normally fail a preliminary oral assessment, but a student's committee has broad power in making recommendations based on a student's performance, up to and including that the departmental graduate committee review whether the student is allowed to continue in the program. It is expected that the student will follow through to address committee concerns and that the student can demonstrate that committee concerns are addressed. For example, by completing recommended coursework, discussion at an annual committee meeting, or having individual meetings with committee members. Although there is no formal reassessment, the student's committee must be satisfied that a student has resolved any deficiencies before allowing a student to schedule a final oral examination.

2. **Comprehensive Oral Examination and Thesis Defense** - After satisfactory completion of the required number of courses (and the presentation of a seminar on the thesis research for those pursuing the thesis option), the student must take a comprehensive examination (and thesis defense for thesis students). The examination (and thesis defense) will be conducted by the student's graduate committee, but it is open to all biology graduate faculty members. The biology graduate faculty must be notified of the examination date, time and place at least two weeks prior to the examination. There is no time limit, but the examination (and thesis defense) ordinarily lasts at least two hours. For thesis students, the first round of questions is devoted to a defense of the thesis and the second and subsequent rounds of questions are over basic biological concepts and principles. For non-thesis students, all questions are on general biology. At

the end of the comprehensive oral examination (and thesis defense), the student's graduate committee will assign a grade of pass or fail, based on a majority vote of the committee. If the student fails the comprehensive oral examination (and thesis defense), he or she may be granted permission to take a second examination if approved by the student's graduate committee, graduate program coordinator, the chair of the Department of Biology, and the dean of College of Science and Mathematics. In no case will a second examination be given until at least one semester has passed. After two failures, no further examination is allowed.

3. **Biology Grades** - Graduate students in biology are expected to maintain a GPA of 3.0 overall and a 3.0 GPA in all 5000- level and higher biology courses (i.e., excluding courses outside of biology and excluding undergraduate courses). A student whose overall GPA falls below 3.0 will be placed on probation. A student whose biology graduate GPA falls below a 3.0 for one semester will receive a written warning of their status. To remain in the graduate program, the student must restore his or her GPA to 3.0 by the end of the next semester. (Two summer sessions are equivalent to one semester.)
4. **Committee Formation** - Students must form a committee within 16 weeks (i.e., one semester) of starting the program, and may be removed from the Biology Master's Program if they do not have a committee for more than 16 consecutive weeks.
5. **Degree Plan** - Students must submit a degree plan to the biology graduate program coordinator within 16 weeks (i.e., one semester) of starting the program, preferably after completing their preliminary oral assessment.
6. **Continuous Enrollment** - Students are expected to enroll continuously for biology classes just as they are expected to enroll continuously for graduate courses. A student who is taking only courses outside biology should inform his/ her supervisor and the biology graduate program coordinator to ensure that he/she is not removed from the Biology Graduate Program.

Annual Committee Meeting - Students should have an annual committee meeting to ensure that the student is making satisfactory progress toward completion of the degree.

General Requirements for Thesis Program

1. Graduate students selecting the thesis option must complete 30 hours, including the thesis. The choice of courses will be determined through consultation between the student and his or her graduate adviser and have the approval of the chair of the department.
2. During the first semester of study following admission to graduate study, the student should choose from the graduate faculty a major professor, who will serve as chairperson of his or her graduate committee, and

two other faculty members chosen in conference with the major professor and the chair of the department. A degree plan, signed by the student and his or her supervisor(s) (i.e., graduate committee chair), must be submitted to the graduate program coordinator, who will forward it to appropriate administrators for signatures. This committee will also oversee progress and supervise the required comprehensive examination.

3. A thesis topic and plan for research will be chosen by the student and his/her major professor, subject to approval by the student's graduate committee.
4. The research will culminate in a thesis written in the style approved by the student's graduate committee and should be worthy of submission, in whole or in part, for publication in a reputable journal. Approval must be affirmed by the chair of the Department of Biology and the dean of the College of Science and Mathematics.
5. Following acceptance of the thesis, evidenced by the signatures of the members and by the administrators indicated above, the final copy of the thesis will be submitted to the Office of Graduate Studies.

General Requirements for Non-Thesis Program

A non-thesis student must complete 36 hours of coursework, which must include at least 27 hours in biological sciences. A maximum of nine hours in a related minor or supporting field may be taken if approved by the student's supervisor and relevant administrators.

Switching Degree Options

1. Students may switch between the thesis and non-thesis options if 18 graduate credit hours or fewer are completed by submitting a change of program form and new degree plan.
2. Students who have completed more than 18 graduate credit hours must submit a written request and justification for the change to the Biology Graduate Program coordinator. The Biology Graduate Program coordinator and members of the Biology Graduate Committee will review requests. Requests to switch from thesis to non-thesis after more than 18 hours of coursework have been completed in a program must be strongly justified and should be supported in writing by a student's committee. If approved, the student must submit a new degree plan within eight weeks.

Master of Science Degree

Required Courses 15 hours (Thesis)

18-27 hours (Non-Thesis)

BIOL	6101	Biology Graduate Seminar (must be completed three times)
BIOL	6305	Biometry
BIOL	6365	Graduate Biological Research Problems
BIOL	7300	Thesis (Thesis option)
BIOL	7301	Thesis (Thesis option)

Electives 15 hours

Select 15 hours (Thesis) or 18-27 hours (Non-Thesis) from the following:

BIOL	5304	Advanced Ichthyology
BIOL	5307	Host-Parasite Relationships
BIOL	5315	Advanced Entomology
BIOL	5316	Advanced Environmental Toxicology
BIOL	5317	Advanced Bacterial Genetics
BIOL	5318	Advanced Topics in Ethnobotany
BIOL	5344	Advanced Mammalogy
BIOL	5345	Advanced Plant Physiology
BIOL	5346	Advanced Aquatic Entomology
BIOL	5403	Advanced Remote Sensing Technology
BIOL	5404	Molecular Virology
BIOL	5405	Advanced Plant Physiology
BIOL	5406	Advanced Mycology
BIOL	5408	Advanced Plant Pathology
BIOL	5409	Advanced Herpetology
BIOL	5410	Marine Plant Science
BIOL	5411	Advanced Ecological Physiology
BIOL	5412	Advanced Ornithology
BIOL	5414	Advanced Plant Systematics
BIOL	5418	Advanced Electron Microscopy
BIOL	5420	Biotechnology
BIOL	5424	Advanced Microbial Ecology
BIOL	5426	Advanced Marine Ecology
BIOL	5452	Advanced Marine Zoology
BIOL	6303	Advanced Ecology
BIOL	6304	Systematic Biology
BIOL	6307	Bioenergetics
BIOL	6308	Plant-Microbe Interactions
BIOL	6313	Advanced Cell Biology and Physiology
BIOL	6316	Molecular Genetics
BIOL	6319	Scientism
BIOL	6321	Applied Microbiology
BIOL	6322	History of Biology
BIOL	6324	Evolutionary Theory
BIOL	6412	Subtropical Ornithology
BIOL	6420	Plant Biochemistry and Molecular Biology
CHEM	6305	Biochemistry

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

TOTAL 30 hours (Thesis)
36 hours (Non-Thesis)

Course Descriptions

A listing of graduate courses offered by the Department of Biology can be found in the Course Descriptions section of this catalog beginning on page 193. All biology courses require graduate standing before enrollment.

Chemistry

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Gutierrez, Jose, Associate Professor
Han, Aijie, Assistant Professor
Ibrahim, Elamin, Associate Professor
Macossay, Javier, Associate Professor
Mao, Yuanbing, Assistant Professor
Mondal, Jalal, Professor
Parsons, Jason, Assistant Professor
Rampersad, Joanne, Assistant Professor
Smith, Christopher, Assistant Professor
Villarreal, John, Professor
Whelan, Thomas III, Associate Professor

General Overview

The Department of Chemistry provides the programs for graduate students to complete the Master of Science in chemistry to become professional chemists or to become professional secondary school/community college teachers. Both program tracks require students to finish 12-credit hours of core courses, three-credit hours of seminar courses, and nine-credit hours of elective courses. In order to meet the total 30-credit hour requirement for graduation, students in the traditional research track need to complete six-credit hours on thesis and chemical research, while those in the teacher preparation track should finish six-credit hours on chemical educational project on secondary school/community college education. Among the nine-credit elective hours, students may be allowed to bring in a maximum of six-credit graduate hours from courses other than chemistry.

Admission Requirements

The applicant must be accepted to the Graduate School of the University of Texas Pan American. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. The application packet will include official undergraduate transcripts, three letters of recommendation for non-UTPA graduates, recommendations from the chemistry graduate program adviser (which will be made after a scheduled interview with the applicant), recommendations from the Chemistry Graduate Program Committee, and TOEFL scores for international students (which will be made after a review of the applicant's files).

In addition to the requirement of admission to the Graduate School, to be considered for unconditional admission to the Chemistry Program, the applicant must satisfy the following requirements:

- A minimum grade point average of 3.0 on a scale of 4.0 in the last 32 hours of the completed undergraduate degree (which need not be in chemistry) as shown on an official transcript.
- Completion of the general section of the GRE (the scores will be used for comparison purposes only and will not be considered as sole criteria).
- Sufficient undergraduate coursework in chemistry that is demonstrated by 32 credit hours of chemistry.

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

Probationary admission will be considered for applicants who do not satisfy the criteria outlined in (a) above but are not granted unconditional status by the program committee. The program committee will base probationary admission on the strength of the applicant's application portfolio and recommendations.

Such probationary admission may require courses addressing application deficiencies, and/or advice to take additional coursework in a particular field. These steps must be taken before the applicant is granted non-probationary or clear status.

The applicant may not proceed beyond 12 credit hours of chemistry graduate courses with a probationary status.

General Degree Requirement

Leveling Courses	none at graduate level
Core Courses	12 hours
Required Seminar Courses	3 hours
Prescribed Electives	none*
Free Electives	9 hours*
Required Thesis option **	6 hours
Required Project option **	6 hours
TOTAL SCH	30 hours

* Free electives are developed in consultation with an adviser and with the approval of the program director. In that sense there are no true prescribed electives apart from those suggested by the advisers. Students can take three hours (only one course) from other disciplines and under special cases, with the approval of the program director, can bring a maximum of two courses (six hours) of electives from disciplines other than chemistry.

** The "Thesis hours" will be required for the traditional research track and project hours will be required for the teachers preparation track.

General Requirements for Thesis Option

A supervised master's thesis is required. The thesis option provides much needed practical experience and technical skills, insight into the intricacies of scientific research and the opportunity to develop written and oral communication skills. When a clearly defined project has been outlined, the candidate can advance the study in coordination with an adviser. The thesis track involves three credits of seminar, writing and literature search techniques, and six credits of research work.

General Requirements for Project Option

A student may choose to take a project option with the consent of the program director. The student will still be required to take three credits of seminar, writing and literature search skills, but the six credits of project work in which they will develop experimental plans and lesson plans applicable to high school and community college teaching. The student with the help of his/her adviser(s) will develop the scope and project topics.

Master of Science Degree Thesis Option

Core Courses		12 hours
CHEM 6305	Biochemistry*	
CHEM 6310	Organic Chemistry	
CHEM 6315	Inorganic Chemistry*	
CHEM 6320	Instrumental Analysis	
CHEM 6325	Physical Chemistry	

* Either Inorganic Chemistry or Biochemistry (If both courses are taken, one counts as an elective.)

Elective Courses**		9 hours
CHEM 6330	Special Topics in Organic Chemistry	
CHEM 6340	Special Topics in Inorganic Chemistry	
CHEM 6350	Special Topics in Analytical Chemistry	
CHEM 6360	Special Topics in Physical Chemistry	
CHEM 6370	Special Topics in Chemical Education	
CHEM 6380	Special Topics in Biochemistry	
CHEM 6302	Teaching Environmental Sciences	

** Six credit hours could be from other disciplines. Special topics courses can be repeated up to three times.

Seminar Courses		3 hours
CHEM 7101	Seminar I	
CHEM 7102	Seminar II	
CHEM 7103	Seminar III	

Thesis		6 hours
CHEM 7351	Thesis I	
CHEM 7352	Thesis II	

Master of Science Degree Project Option

Core Courses		12 hours
CHEM 6305	Biochemistry*	
CHEM 6310	Organic Chemistry	
CHEM 6315	Inorganic Chemistry*	
CHEM 6320	Instrumental Analysis	
CHEM 6325	Physical Chemistry	

Either Inorganic Chemistry or Biochemistry (If both courses are taken, one counts as an elective.)

Elective Courses**		9 hours
CHEM 6330	Special Topics in Organic Chemistry	
CHEM 6340	Special Topics in Inorganic Chemistry	
CHEM 6350	Special Topics in Analytical Chemistry	
CHEM 6360	Special Topics in Physical Chemistry	
CHEM 6370	Special Topics in Chemical Education	
CHEM 6380	Special Topics in Biochemistry	
CHEM 6302	Teaching Environmental Sciences	

*** Six credit hours could be from other disciplines. Special topics courses can be repeated up to three times.*

Seminar Courses **3 hours**

CHEM	7101	Seminar I
CHEM	7102	Seminar II
CHEM	7103	Seminar III

Project **6 hours**

CHEM	7325	Master's Project I
CHEM	7326	Master's Project II

Master of Science in Interdisciplinary Studies Chemical Education

Core Courses **12 hours**

CHEM	6310	Organic Chemistry
CHEM	6320	Advanced Instrumental Analysis
CHEM	6325	Advanced Physical Chemistry
CHEM	6305	Biochemistry OR
CHEM	6315	Advanced Inorganic Chemistry

Electives **6 hours**

(Select any two courses)

CHEM	6302	Teaching Environmental Sciences
CHEM	6330	Special Topics in Organic Chemistry
CHEM	6340	Special Topics in Inorganic Chemistry
CHEM	6350	Special Topics in Analytical Chemistry
CHEM	6360	Special Topics in Physical Chemistry
CHEM	6370	Special Topics in Chemical Education
CHEM	6380	Special Topics in Biochemistry

*Select 9 hours from two of the following blocks
(Total 18 hours)*

Education

EDCI	6301	Instructional Technology
EDCI	6302	Multicultural Education
EDCI	6305	Educational Curriculum
EDCI	6306	Special Projects
EDCI	6307	Research, Issues and Trends in Education
EDCI	6310	Research Methods in Education
SCIE	6303	Recent Developments in Applied Science

Mathematics

(Any three graduate mathematics courses except MATH 6330, 6337, 6359, 6375, 6376, 6385, 7300, 7301.)

Educational Psychology

EPSY	6330	Identifying the Gifted and Talented
EPSY	6331	Curriculum, Methods and Materials for the Gifted and Talented
EPSY	6332	Creativity and the Gifted and Talented

EPSY	6333	Counseling the Gifted and Talented
EPSY	6342	Seminar in Gifted Education

Physics

PHYS	5404	Physics by Inquiry I
PHYS	5405	Physics by Inquiry II
PHYS	6400	Astronomy by Sight
PHYS	6301	Topics in Physics for Teachers
PHYS	6302	Environmental Physics for Teachers
PHYS	6303	Quantum Information
GEOL	5301	Geology and Geography
GEOL	6302	Meteorology and Oceanography

Computer Science

(Any three graduate computer science courses except CSCI 6302, 6312, 6343, 6363, 6365, 6366, 6368, 6380, 6381, 6389, 6390, 7300.)

Biology

(Any three graduate biology courses except BIOL 5318, 5405, 5424, 5426, 6101, 6365, 7300, 7301.)

Course Description

A listing of graduate courses offered by the Department of Chemistry can be found in the Course Description section of this catalog beginning on page 197.



Mathematics

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Chakraborty, Santanu, Assistant Professor
Debnath, Lokenath, Professor
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Feng, Zhaosheng, Associate Professor
Galstyan, Anahit, Assistant Professor
Gkioulekas, Eleftherios, Assistant Professor
Huber, Timothy, Assistant Professor
Knobel, Roger, Associate Professor
Lawton, Sean, Assistant Professor
Maruno, Kenichi, Assistant Professor
Mukherjea, Arunava, Professor
Nguyen, Mau Nam, Assistant Professor
Onica, Constantin, Assistant Professor
Pierce, Virgil U., Assistant Professor
Poletaeva, Elena, Assistant Professor
Qiao, Zhijun, Associate Professor
Riahi, Daniel, Professor
Roy, Ranadhir, Assistant Professor
Roychowdhury, Mrinal K., Assistant Professor
Taylor, Monty B., Professor
Tsay, Jenq-Jong, Assistant Professor
Villalobos, Maria Cristina, Associate Professor
Wang, Xiaohui, Assistant Professor
Watkins, William T., Professor
Yagdjian, Karen, Associate Professor
Yanev, George, Assistant Professor
Yoon, Jasang, Assistant Professor

Master in Mathematics Graduate Program

The Department of Mathematics offers a 36-hour master's degree program, which can be completed in one of three ways:

- A 36-hour non-thesis program completed with coursework leading to a Master of Science in Mathematics.
- A 36-hour coursework-research project program completed by taking Research Report, MATH 6391 (three hours for project).
- A 36-hour coursework-thesis program completed by taking Thesis, MATH 7300 and MATH 7301 (six hours for thesis).

An 18-hour core is required of all students. Additionally, students must complete 18 hours in a concentration area. A master's in applied mathematics has also been added recently, a new option in the current master's program.

All students applying for admission to this program must meet all University requirements for entrance into graduate studies and hold a bachelor's degree in mathematics or a related field.

Objectives of the Program

Educational objectives for the Mathematics Teaching Option:

1. To provide instruction for secondary mathematics teachers to upgrade their knowledge of mathematics and to improve their pedagogical skills.
2. To prepare secondary mathematics teachers to become leaders within their school district in the areas of mathematics curriculum and instruction.
3. To prepare students for advanced graduate study in mathematics education.

Educational objectives for the Mathematical Sciences Option:

1. To provide the mathematics content needed for a student to pursue a career in professional areas requiring advanced mathematics.
2. To prepare students for advanced graduate study in mathematics.

Degree Requirements

Core Courses			18 hours
MATH	6331	Algebra I	
MATH	6332	Algebra II	
MATH	6352	Analysis I	
MATH	6353	Analysis II	
MATH	6365	Probability and Statistics	
MATH	6387	Mathematical Modeling	

Designated Electives**18 hours**

Mathematical Sciences Concentration

Select four courses from the following:

MATH 6330	Linear Algebra
MATH 6337	Advanced Number Theory
MATH 6359	Applied Analysis
MATH 6360	Ordinary Differential Equations
MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6364	Statistical Methods
MATH 6370	Topology
MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for Partial Differential Equations
MATH 6385	Cryptology and Codes
MATH 6388	Discrete Mathematics
MATH 6391	Master's Project
MATH 7300	Thesis
MATH 7301	Thesis

Select an additional six hours of approved electives.

Mathematics Teaching Concentration

The following courses are required:

MATH 6308	Teaching of Algebraic Concepts
MATH 6310	Topics in Mathematics Teaching
MATH 6312	Teaching of Geometric Concepts
MATH 6390	Mathematics Seminar

Select an additional six hours of approved electives.

Master of Science in Applied Mathematics: Thesis and Non-Thesis Options

This is a new option in the current master's program.

A thesis option accommodates a six-hour thesis requirement by reducing the designated elective requirement from 15 hours to 12 (nine hours).

Degree Requirements

Non-Thesis Option

Core Courses

Complete the following five courses:

MATH 6352	Analysis I
MATH 6360	Ordinary Differential Equations
MATH 6387	Modeling
MATH 6330	Linear Algebra
MATH 6359	Applied Analysis

Designated Electives

Complete five courses selected from the following:

MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6388	Discrete Mathematics

MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for Partial Differential Equations
MATH 6385	Cryptology and Codes
MATH 6455	Applied Mathematics I
MATH 6456	Applied Mathematics II

Free Electives

Select an additional six hours of approved electives.

Thesis Option

Core Courses

Complete the following five courses:

MATH 6352	Analysis I
MATH 6360	Ordinary Differential Equations
MATH 6387	Modeling
MATH 6330	Linear Algebra
MATH 6359	Applied Analysis

Designated Electives

Complete three courses selected from the following:

MATH 6361	Partial Differential Equations
MATH 6362	Fourier Analysis
MATH 6388	Discrete Mathematics
MATH 6375	Numerical Analysis
MATH 6376	Numerical Methods for Partial Differential Equations
MATH 6385	Cryptology and Codes
MATH 6455	Applied Mathematics I
MATH 6456	Applied Mathematics II

Free Electives

Select an additional six hours of approved electives.

Thesis

MATH 7300	Thesis I
MATH 7301	Thesis II

Course Descriptions

A listing of graduate courses offered by the Department of Mathematics can be found in the Course Descriptions section of this catalog beginning on page 244.



Physics and Geology

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Zeng, Liang, Associate Professor

General Overview

Physics in the Rapidly Changing World

New developments in physics have been occurring every day and the field is being rejuvenated due to new discoveries. Companies are looking for graduates with increasingly sophisticated skills in physics. As the pace of advances in science and technology accelerates, physics has become an increasingly important area of investment for government, industry and education. For instance, there are significant shortages of well-qualified physics teachers in public schools and community colleges throughout the Rio Grande Valley and our nation.

Graduate Program of Study

The Department of Physics and Geology offers a 36-hour program leading to a Master of Science in Interdisciplinary Studies (MSIS) in physics education with thesis and non-thesis options. These options are designed to prepare students with in-depth subject matter content and teaching methods that provide the graduate with the knowledge, skills and abilities to improve physics education.

NOTE: Each prospective student should have a science background to enroll in the MSIS in physics education program. Requirements: 16-18 hours of physics courses are required (including PSCI 1421, PSCI 1422, PHYS 1401 and PHYS 1402 and advanced physics hours) for students/teachers coming from other disciplines to be admitted to the program on a non-conditional basis. Others may be admitted to the program under a conditional status on a case by case basis.

All students complete a core curriculum. Students in the physics concentration select electives from a collection of courses designed to enhance and develop further skills in science education. Courses are normally offered in the evening, online and during the summer sessions providing greater flexibility in the offerings for part-time teachers and students.

Applications and Contact Information

Admission is possible in all semesters. Students applying for admission to this program must meet the University's grade point average requirement, hold a bachelor-level degree, and have 16-18 hours of physics background. For further information, visit our home page at www.utpa.edu/dept/physci or contact:

MSIS Graduate Program Coordinator
Department of Physics and Geology
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3521 (Main Office)
Fax: (956) 665-2423

Master of Science in Interdisciplinary Studies (MSIS) Degree in Physics Education Non-Thesis

Core Courses: Physics Content 12 hours

PHYS	5404	Physics by Inquiry I
PHYS	5405	Physics by Inquiry II (prerequisite PHYS 5404)
PHYS	6400	Astronomy by Sight (prerequisite PHYS 5405)

Electives: Non-Thesis Option 6 hours

Select any two courses:

PHYS	6301	Topics in Physics for Teachers (prerequisite PHYS 6400)
PHYS	6302	Environmental Physics for Teachers (prerequisite PHYS 6301)
PHYS	6303	Quantum Information
GEOL	5301	Geology and Geography
GEOL	6302	Meteorology and Oceanography
GEOL	6410	Geoscience for Teachers

Education		9-12 hours
EDTC	6301	Instructional Technology
EDCI	6302	Multicultural Education
EDCI	6307	Research, Issues and Trends in Education
		or
EDCI	6308	Advanced Educational Research
SCIE	6303	Recent Development Applied Science
EDCI	6306	Special Projects
EDCI	6305	Educational Curriculum
EDCI	6310	Research Methods in Education

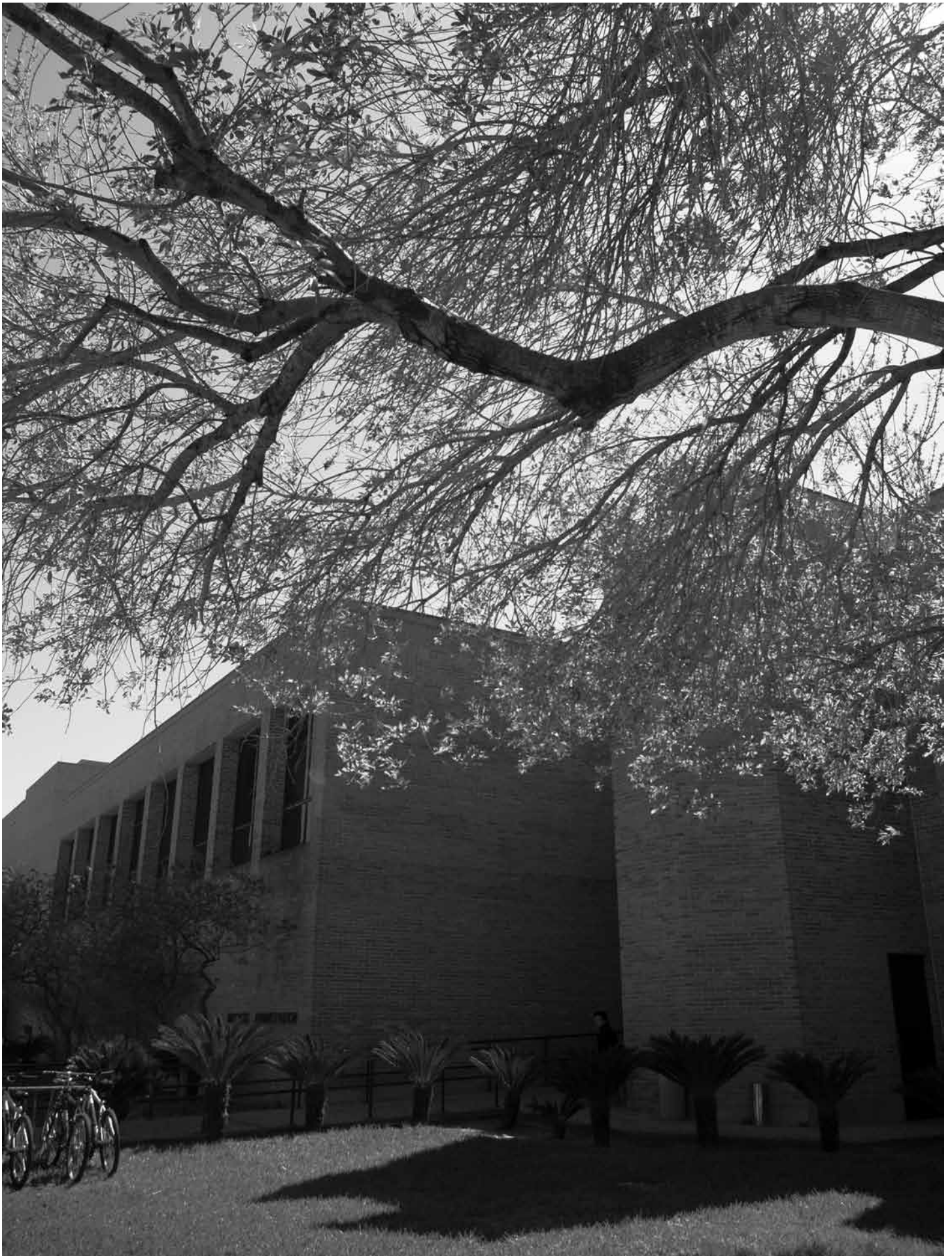
Mathematics		9-12 hours in any of the areas
MATH	6308	Teaching of Algebraic Concepts
MATH	6310	Topics in Mathematics Teaching
MATH	6312	Teaching in Geometric Concepts
MATH	6390	Mathematics Seminar
MATH	6328	Special Problems in Teaching Mathematics

Educational Psychology		9-12 hours in Gifted Education
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 for the Gifted and Talented
EPSY	6342	Seminars in Gifted Education

Course Descriptions

A listing of graduate courses offered by the Department of Physics and Geology can be found in the Course Description section of this catalog beginning on page 268 (physics) and 233 (geology). All physics and geology courses require graduate standing before enrollment.





COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

General Overview

The College of Social and Behavioral Sciences is composed of seven departments and programs: Criminal Justice, Global Security Studies, Military Science, Political Science, Psychology and Anthropology, Public Administration, and Sociology.

Academic Programs

The College of Social and Behavioral Sciences offers the Master of Arts degree in psychology, Master of Science in criminal justice and sociology, and the Master of Public Administration, a professional preparation program for public service in governmental agencies.

Graduate majors in psychology may select a clinical or an experimental concentration. Within the experimental psychology concentration there is an option to pursue certification as a Board Certified Behavior Analyst. Students who wish to pursue graduate study in anthropology may opt for a Master of Arts degree in interdisciplinary studies with a concentration in anthropology. Students with an interest in global security may pursue a Master of Arts in interdisciplinary studies with a concentration in Global Security Studies and Leadership. Students in the sociology graduate program may choose a general sociology focus or a concentration in regional studies or health and aging.

In addition, the college provides support to graduate programs in other colleges by providing several key graduate courses.

The college also offers the Bachelor of Arts in anthropology, general studies, political science, psychology, and sociology, a Bachelor of Science in psychology, and Bachelor of Science in criminal justice.

Students may minor in anthropology, criminal justice, global security studies, military science, political science, public administration, psychology or sociology. Additionally, the Department of Military Science provides Army ROTC training that can lead to commissioning in the Army, Army Reserve or National Guard.

Dr. Walter Diaz, Dean

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Web: <http://www.utpa.edu/csbs>

Dr. Grant Benham, Interim Assistant Dean
Dr. Gary Montgomery, Assistant Dean
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Criminal Justice

Dr. S. George Vincentnathan, Department Chair

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Dr. Joseph Appiahene-Gyamfi, Graduate Program Director
Social and Behavioral Sciences Building, Room 319A
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E-mail: appiahen@utpa.edu

Graduate Faculty

Appiahene-Gyamfi, Joseph, Associate Professor
Dearth, Daniel K., Associate Professor
Ethridge, Philip, Associate Professor
Resendez, Rosalva, Associate Professor
Vincentnathan, S. George, Professor
Vincentnathan, Lynn, Associate Professor
White, Thomas, Assistant Professor

Overview

The Master of Science in criminal justice is designed to accomplish the following educational objectives:

- Enhance the student's competence in the content, principles, and methods of criminal justice.
- Prepare students for administrative and management positions in federal, state and local criminal justice agencies.
- Prepare students for entry-level positions requiring graduate degrees, such as federal probation, parole and law enforcement agencies.
- Prepare students for academic study beyond the master's degree.
- Develop, through faculty and graduate research, a criminal justice knowledge base concerning issues unique to the region, including Mexico and South America.
- Provide a resource for federal, state and local criminal justice agencies in need of administrative assistance in policy analysis, development and program evaluation.

Admission Requirements

Applicants must:

1. Meet all requirements for graduate admission to UT Pan American (see page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have demonstrated academic preparation for graduate work in criminal justice. This preparation would be shown by (a) a bachelor's degree in criminal justice, criminology, corrections, police administration, or closely related field, or (b) a bachelor's degree in another field and graduate or advanced undergraduate courses in the following areas: political science, psychology, public administration, social work or sociology, and (c) undergraduate coursework in research methods and criminological theory.
3. (For students who would meet graduate studies admission criteria without a GPA of 3.0.) Have a grade point average of 2.75 or higher on a 4.0 scale for the last 60 semester hours or 90 quarter hours of undergraduate courses completed, as shown on official transcripts.

Applicants should consult with the 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 GPA in all graduate courses and have no more than two grades of C in the core.

Core Courses (7 courses or 21 semester hours)

Group I

CRIJ	6301	Theories of Criminal Justice
CRIJ	6302	Advanced Criminology
CRIJ	6304	Criminal Law and Procedure
CRIJ	6306	Criminal Justice Research Methods
CRIJ	6307	Criminal Justice Research Methods and Statistics

Group II

CRIJ	6303	Criminal Justice Policy- Development and Analysis or
CRIJ	6305	Criminal Justice Organizations- Theory and Behavior

Group III

CRIJ	6309	Correctional Theories and Issues or
CRIJ	6310	Policing in a Democracy

Electives

CRIJ	6308	Youth Crime and Justice
CRIJ	6311	World Criminal Justice Systems
CRIJ	6313	Special Topics (may be repeated once if a new topic)
CRIJ	6314	Women, Law and Justice
CRIJ	6315	Victimology
CRIJ	6316	Environmental Crime and Justice
CRIJ	6317	Organizational Crime
CRIJ	6318	Law in Culture and Society
CRIJ	6322	Terrorism
CRIJ	6325	Social Justice and Human Rights
CRIJ	6332	Directed Study
CRIJ	6333	Independent Study

Thesis and Applied Research

CRIJ	7102	One-Hour Thesis Course
CRIJ	7301	Thesis
	7302	Thesis

Final Requirement

Students must pass a comprehensive written examination in all the core courses.

Course Descriptions

A listing of graduate courses offered by the Department of Criminal Justice can be found in the Course Descriptions section of this catalog beginning on Page 204.

Master of Arts in Interdisciplinary Studies, Global Security Studies and Leadership (GSSL)

Lamar Campus Complex 121
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-8088
E-mail: castelanov@utpa.edu
Web: www.utpa.edu/gssl

Graduate Faculty
Chen, Xi, Assistant Professor
Hansmann, Sandra, Associate Professor
Tarawneh, Constantine, Associate Professor

General Overview

The Global Security Studies and Leadership (GSSL) graduate program prepares students for careers in intelligence, national security and other sectors of the global economy through advanced interdisciplinary studies. This program will broaden the skill sets of students through focus on advanced research, effective cross-discipline team communication and critical analysis. Given that jobs in government or private industry often require multidisciplinary cooperation, the GSSL program will prepare students to work with people from different backgrounds, abilities, and knowledge bases. With this approach, students will have the opportunity to gain the perspective and proficiency of multiple disciplines.

Degree Requirements**Core Courses** **12 hours**

GSSL	5300	Global Security
GSSL	5305	Open Source Research
GSSL	5320	Research and Analysis
GSSL	5330	Practicum in Global Security Studies and Leadership

Specified Interdisciplinary Courses **15 hours**

COMM	6322	Culture and Communication
EPSY	6350	Introduction to Statistics
		or
EPSY	6351	Intermediate Statistics
MGMT	6334	International Management
PSY	6340	Cross Cultural Psychology

Graduate-level elective course
(*see adviser for a list of courses)

Required Technical Competency Courses **9 hours**

CSCI	6303	Principles of Information Technology Systems
CSCI	6318	Cyber Security and Forensics
MIS	6391	Information Security and Assurance Management



Graduate Certificate in Global Security Studies and Leadership (GSSL)

The importance of universities to train a new generation of young professionals to take positions of leadership in the global society has never been more critical. As the challenges of the new century unfold, government agencies, private industry, consulting companies, and think tanks, will increasingly rely on this new cadre of leaders to formulate policies and develop business strategies that are globally aware while at the same time protecting the interest of the U.S. government and corporations. With this in mind, the Certificate in Global Security Studies prepares students in a number of specific general competencies needed by a variety of employers in intelligence analysis and national security fields while providing advanced graduate level education designed to optimize learning in the skills of intelligence analysis.

Certificate Sequence (12 hours)

GSSL 5300	Global Security
GSSL 5305	Open Source Research
GSSL 5320	Research and Analysis
GSSL 5330	Practicum in Global Security Studies and Leadership

Course Descriptions

A listing of graduate courses for the GSSL program can be found in the Course Descriptions section of this catalog on Page 233.



Psychology and Anthropology

Dr. Phillip Gasquoine,
Department Chair

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Telephone: (956) 665-2155
Fax: (956) 665-3333
E-mail: pgasquoine@utpa.edu
Web: <http://www.utpa.edu/dept/psych-anth>

Psychology

Web: <http://www.utpa.edu/psychology>

Dr. Philip Gasquoine, Professor
Psychology Graduate Program Director
Education Complex, Room 1.202A
Telephone: (956) 665-2155
E-mail: pgasquoine@utpa.edu
Web: <http://www.utpa.edu/dept/gsprogram>

Graduate Faculty

Aldridge, James W., Jr., Professor
Alfaro, Edna, Assistant Professor
Benham, Grant, Associate Professor
Cain, Roy E., Associate Professor
Croyle, Kristin, Associate Professor
Ernst, Fred, Professor
Harai, Michiyo, Assistant Professor
James-Aldridge, Valerie, Associate Professor
Jou, Jerwen, Professor
Kendrick, Sherrill, Assistant Professor
Montgomery, Gary T., Professor
Rogers, Darrin, Assistant Professor
Weimer, Amy, Assistant Professor
Winkel, Mark H., Associate Professor

Overview

The Graduate Program in psychology offers four options for students:

1. Clinical psychology, thesis option
2. Clinical psychology, non-thesis option
3. Experimental psychology, general
4. Experimental psychology, Board Certified Behavior Analyst

Students with a master's degree in clinical psychology will be eligible to apply for licensure as a psychological associate and professional counselor in the state of Texas. Students with a master's degree in experimental psychology, Board Certified Behavior Analyst, will be eligible to complete the national examination to become a Board Certified Behavior Analyst. Both experimental and clinical psychology graduates are encouraged to transfer and continue their education in a doctoral psychology program.

Admission Requirements

Applicants must:

1. Meet all requirements for graduate admission to UT Pan American (see Page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have completed at least 12 hours of undergraduate courses in psychology including PSY 2401 Basic Statistics for Psychologists and PSY 3325 Research Methods in Psychology.
3. Submit official transcripts with a 3.0 GPA on a 4.0 scale for the last 60 hours completed in psychology coursework, and a 3.0 GPA on a 4.0 scale in undergraduate psychology coursework.
4. Provide GRE scores in verbal and quantitative sections.
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 professional goals and objectives and specifying the major option to which they are applying.
7. Submit a résumé of educational background, volunteer and work experience.

Applicants will only be considered for acceptance to the program option (i.e. clinical, experimental) to which they have applied.

Degree Requirements

Thesis Option in Clinical Psychology

A. Core Courses		27 hours
PSY	6301	Psychological Statistics
PSY	6305	Advanced Studies in Psychopathology
PSY	6311	Advanced Studies in Personality Theory
PSY	6320	Neuropsychology Psychology
PSY	6325	Conditioning and Learning
		or
PSY	6326	Theoretical Issues in Learning
PSY	6332	Research Design
PSY	6336	Advanced Psychological Measurement

PSY	6340	Cross Cultural Psychology
PSY	6363	Contemporary Professional Issues and Ethics in Psychology

B. Clinical Applications **6 hours**

PSY	6352	Personality Assessment
PSY	6354	Individual Psychotherapy

C. Supervised Clinical Practice Courses **15 hours**

PSY	6364	Clinical Practicum I (repeat twice)
PSY	6368	Internship (480 hours)
PSY	7370	Thesis (repeated twice)

TOTAL 48 hours

Non-Thesis Option in Clinical Psychology

A. Core Courses **24 hours**

PSY	6301	Psychological Statistics
PSY	6305	Advanced Psychopathology
PSY	6311	Advanced Studies in Personality Theory
PSY	6320	Neuropsychology
PSY	6325	Conditioning and Learning
		or
PSY	6326	Theoretical Issues in Learning
PSY	6336	Advanced Psychological Measurement
PSY	6340	Cross Cultural Psychology
PSY	6363	Contemporary Professional Issues and Ethics in Psychology

B. Clinical Applications **9 hours**

PSY	6352	Personality Assessment
PSY	6354	Individual Psychotherapy
PSY	6356	Group Psychotherapy

C. Designated Electives for licensed professional counselors **6 hours**

PSY	6330	Developmental Psychology
EPSY	6366	Lifestyle and Career Development

D. Supervised Clinical Practice Courses **9 hours**

PSY	6364	Clinical Practicum I (repeat twice)
PSY	6368	Internship (480 hours)

Total Hours Required for the Option 48 hours

Option in Experimental Psychology

A. Core Courses **18 hours**

PSY	6311	Advanced Studies in Personality Theory
PSY	6320	Neuropsychology
PSY	6325	Conditioning and Learning
		or
PSY	6326	Theoretical Issues in Learning
PSY	6332	Research Design
PSY	6336	Advanced Psychological Measurement

PSY 6301 Psychological Statistics

B. Electives 12 hours

To be selected in conjunction with the graduate adviser.

C. Thesis Requirement 6 hours

PSY 7370 Thesis (repeated twice)

Total Hours Required for the Option 36 hours

**Option in Experimental Psychology:
Board Certified Behavior Analyst**

A. Core Courses 46 hours

PSY 6174 Special Topics in Psychology
(repeated four times)
 PSY 6301 Psychological Statistics
 PSY 6315 Applied Behavior Analysis
 PSY 6320 Neuropsychology
 PSY 6330 Developmental Psychology
 PSY 6332 Research Design
 PSY 6334 Single Subject Designs and Program
 Evaluation
 PSY 6340 Cross-Cultural Psychology
 PSY 6350 Behavioral Assessment
 PSY 6363 Contemporary Professional Issues
 and Ethics in Psychology
 PSY 6365 Applied Behavior Analysis
 Practicum (repeated four times)
 PSY 6376 Directed Studies

B. Electives 0 hours

No elective hours are required

C. Thesis Requirement 6 hours

PSY 7370 Thesis (repeat two times)

Total Hours Required for the Option 52 hours

All students must complete a comprehensive examination as part of the graduation requirements.

Course Descriptions

A listing of psychology graduate courses offered by the Department of Psychology and Anthropology can be found in the Course Descriptions section of this catalog on Pages 269.

Anthropology

Web Site: <http://www.utpa.edu/anthropology>

Graduate Faculty

Diaz-Barriga, Miguel, Professor
 Dorsey, Margaret, Assistant Professor
 Graham, Margaret, Associate Professor
 Hinojosa, Servando, Associate Professor
 Pozorski, Shelia, Professor
 Pozorski, Thomas, Professor
 Showronek, Russell, Professor
 Vincentnathan, Lynn, Associate Professor

Overview

UT Pan American offers interdisciplinary degree programs at the graduate level including a Master of Arts in interdisciplinary studies. Graduate courses available in anthropology enable graduate students to:

1. Complete a Master of Arts degree in interdisciplinary studies with a concentration in anthropology.
2. Take graduate anthropology courses as electives within other graduate programs.

Students pursuing either option are expected to meet with the anthropology coordinator or other anthropology faculty in order to develop a program of study.

This degree is structured as follows:

Thesis Option

Eighteen hours in anthropology, including the thesis (concentration area).

Required Courses

ANTH 6345 Anthropological Method and Theory
 ANTH 7300 Thesis
 ANTH 7301 Thesis

Nine hours in Discipline Two.

Nine hours in Discipline Three.

Non-Thesis Option

Eighteen hours in anthropology (concentration area).

Required Course

ANTH 6345 Anthropological Method and Theory

Nine hours in Discipline Two.
Nine hours in Discipline Three.

Graduate courses available in anthropology also enable graduate students to take anthropology courses as electives within other graduate programs, such as English or history.

Course Descriptions

A listing of anthropology graduate courses offered by the Department of Psychology and Anthropology can be found in the Course Descriptions section of this catalog on Page 189.

Public Administration

Dr. William L. Turk,
Director

Social and Behavioral Sciences Building, Room 229
1201 West University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2545
Fax: (956) 665-2139

Graduate Faculty
Borrego, Espiridian Al, Associate Professor
Lynch, Cynthia, Associate Professor
Milford, John, Lecturer
Montesdeoca, Richard, Lecturer
Turk, William, Associate Professor
Zemrani, Aziza, Assistant Professor

Graduate Program

The Department of Public Administration offers graduate study toward a Master of Public Administration (MPA) degree. The MPA is a professional preparation program for public service in governmental agencies at the federal, state, regional and local levels. The student must meet all requirements for graduate admission to UT Pan American (see Page 18). Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.

Degree Requirements

The MPA degree requires successful completion of either 39 or 42 total graduate hours.

- Track I: 18 hours in core courses, 15 hours in designated electives, plus internship, 6 hours in either thesis or applied research grant project. A total of 39 semester credit hours.
- Track II: 18 hours in core courses, 21 hours in designated electives, plus internship, 3 hours in the capstone course, PUBA 6306 Public Administration: Past, Present, and Future. A total of 42 semester credit hours. Thesis and/or applied research grant project hours will not be counted within the 42 hour total for Track II.

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. A student must maintain a 3.0 GPA or higher.

Prerequisite

The students who have no public sector work experience or have taken no advanced PUBA or POLS courses 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 Courses

Students will be required to take 18 hours of core courses. These include three hours covered by PUBA 6302 Graduate Seminar in Public Administration, and five other core courses in the five program areas recommended by the National Association of Schools of Public Affairs and Administration (NASPAA). The five program areas and the five core courses are:

NASPAA		Area A-Political Social Economic
PUBA	6305	Environment Problems in State and Local Government
NASPAA		Area B-Public Policy Analysis
PUBA	6312	Policy Implementation and Program Evaluation
NASPAA		Area C-Managerial Processes
PUBA	6321	Public Personnel Administration
NASPAA		Area D-Analytical Tools
PUBA	6330	Scope and Methods in Public Administration
NASPAA		Area E-Individual-Group
PUBA	6341	Organizational Behavior Political Leadership: Decision Making and Management in Public Organizations

Designated Electives

Students will take 12 hours of courses supportive of study within the discipline. Courses may be taken from the five NASPAA program areas, six hours may be taken outside the department in approved graduate level courses.

PUBA	6303	Ethics for Public Service
PUBA	6304	Intergovernmental Relations
PUBA	6307	The Politics of Scarcity
PUBA	6309	Introduction to Planning
PUBA	6311	Formulation of Public Policy
PUBA	6320	Public Finance Administration
PUBA	6322	Intro to Community Development
PUBA	6323	Management of Governmental Information Systems
PUBA	6327	Management of Nonprofit Organizations

Track II Required Elective

Students selecting the Track II exit strategy are required to take PUBA 6306 in partial fulfillment of the 42-hour requirement. PUBA 6306 may not be taken until the student has accumulated 33 or more hours.

Internship

Students who do not have work experience in public administration will be required to complete a three-hour internship. This course is PUBA 6325. (Students employed full time in the public sector may use their present position to replace the internship experience upon approval). All students are strongly encouraged to take the internship course.

Course Descriptions

A listing of graduate courses offered by the Master of Public Administration Program can be found in the Course Descriptions section of this catalog beginning on Page 271.

Sociology

Dr. Miguel Diaz-Barriga,
Department Chair

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E-mail: diazbarrigam@utpa.edu

Dr. Igor Ryabov
Graduate Program Adviser
Social and Behavioral Sciences Building, Room 344A
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E-mail: ryabovi@utpa.edu

Graduate Faculty
Guerra, Ramon S., Associate Professor
Raajpoot, Uzzer A., Associate Professor
Ryabov, Igor, Assistant Professor
Su, Dejun, Assistant Professor
Wang, Guang-zhen, Professor

Mission Statement

The mission of the graduate program of the Department of Sociology at The University of Texas-Pan American is to prepare students who complete our program with the knowledge and the technical expertise to be effective specialists, analysts and administrators in a variety of social settings, such as federal, state and local government agencies, school districts, community health and aging organizations, marketing firms and evaluation programs.

The department offers a curriculum with strong emphasis on methods, statistics and theory that prepare students seeking to continue their studies to succeed in doctoral programs in sociology.

In order to accomplish our mission, the department pursues excellence in teaching, research and professional service, and provides students with research and classroom teaching experience. Our mission is consistent with the mission of the University.

General Overview

Candidates for the master's degree may choose a general sociology focus, a concentration on inequality and poverty (including Mexican American society and border and inter-American issues), a concentration on health and aging (including such topics as health care research and analysis, health care systems, research methods), or a concentration on technical research and program evaluation.

Admissions Requirements

1. Meet all requirements for graduate admission to UT Pan American (see Page 18), as well as the other requirements listed below. Application for admission must be submitted online. The application is available at www.utpa.edu/gradschool. Once submitted, applicants can check the status of their applications online or by contacting the Graduate Office.
2. Have had at least 15 undergraduate hours in sociology or demonstrated competence from equivalent coursework in similar liberal arts discipline.
3. Submit a letter of intent and a completed application.
4. Have submitted two letters of recommendation from individuals who are qualified to judge the student's academic and professional development.

Note: Students not meeting these requirements may be admitted on a conditional basis and will need to meet any conditions indicated by the graduate adviser.

Degree Requirements

To receive the Master of Science in sociology, a candidate must complete a total of 36 hours of graduate study, including 12 hours of core requirements. The writing of a thesis is optional for receiving the degree. Students choosing the thesis option are required to complete 36 hours of graduate study, including 15 hours of core requirements and six hours of thesis.

Core Courses

SOCI	6300	Graduate Statistics
SOCI	6301	Graduate Social Theory
SOCI	6302	Graduate Research Methods
SOCI	6304	Graduate Research Analysis

Designated Electives

Select 24 hours of electives, six of which may be thesis hours.

Other Electives

Students may select three to six hours of approved graduate electives from other disciplines.

Sequencing of Core Courses

It is estimated the master's program in sociology can be completed in four semesters for students who are enrolled full time in the program (nine semester credit hours per semester) and four semesters and two summer terms for part-time students. Based on the four-semester model to complete the graduate degree, we suggest that students organize the coursework along the following timeline: The first semester of graduate work is left open for students to make up deficiencies or take electives. During the second semester, students can take Sociology 6300 and 6301. During the third and fourth semesters, students can take Sociology 6302, 6303 and 6304. Part-time students are strongly encouraged to complete their degrees along this timeline by enrolling in two summer school terms (first and second year of graduate work) for a total of six hours each term.

In addition to a general sociology program, the department offers three possible areas of concentration:

- Social Inequality
- Health and Aging
- Applied Research and Program Evaluation

Course Descriptions

A listing of graduate courses offered by the Department of Sociology can be found in the Course Descriptions section of this catalog on Page 279.



Course Codes

Every course at The University of Texas-Pan American is identified by a subject code with a maximum of four letters and a four-digit number that specifies the level and the number of hours of credit of the course. Course numbers show both the collegiate level at which they are offered and the semester hour value of the course. The first digit shows the level and the second digit shows the credit hours. The last two digits are departmental designations. For example, CRIJ 6305 is a Criminal Justice course offered at the master's level that carries three hours of credit per semester. For more information on course numbering, see page 40. The subject codes listed below correspond to the following subjects and departments:

Code	Subject
ACC	Accounting
ACCT	Accounting
ANTH	Anthropology
ART	Art
BADM	Business Administration
BIOL	Biology
BLAW	Business Law
CHEM	Chemistry
CIS	Computer Information Systems
COMD	Communication Disorders
COMM	Communication
CRIJ	Criminal Justice
CSCI	Computer Science
ECON	Economics
ED	Education
EDBE	Education
EDCI	Education: Curriculum and Instruction
EDEC	Education: Early Childhood
EDTC	Educational Technology
EDUL	Educational Leadership
ELEE	Electrical Engineering
EMAT	Mathematics
ENG	English
EPSY	Educational Psychology
FINA	Finance
FREN	French
GEOL	Geology
GSSL	Global Security Studies and Leadership
HIST	History
INTB	International Business

Code	Subject
ISQM	Information Systems & Quantitative Methods
KIN	Kinesiology
MACC	Master of Accountancy
MANA	Management
MANE	Mfg. Engineering, Management
MARK	Marketing
MATH	Mathematics
MECE	Mechanical Engineering
MIS	Management Information Systems
MUS	Music
NURS	Nursing
OCCT	Occupational Therapy
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSY	Psychology
PUBA	Public Administration
QUMT	Quantitative Methods
READ	Reading
REHS	Rehabilitation Counseling
SCIE	Interdisciplinary Science
SOCI	Sociology
SOCW	Social Work
SPAN	Spanish



Course Descriptions

ACCOUNTING

ACCT 6301 Principles of Accounting [3-0] as scheduled

The course is designed to provide students with thorough understanding of the basic financial accounting concepts underlying external reporting by corporations. It discusses the role of accounting in business and society, the effects of environmental factors on accounting, the preparation of financial statements, accounting for assets, liabilities and owners' equity. Prerequisite: Admission to the MBA Program.

ACCT 6305 Health Care Accounting [3-0] as scheduled

This is an applied finance and accounting health care course, designed to provide decision makers with fundamental concepts in health care finance, accounting, budgeting, planning and forecasting. Students will gain an understanding in how to analyze financial statements and evaluate the financial conditions of various health care facilities. Students will also acquire an understanding of cost accounting concepts such as cost behavior; break-even analysis and activity based costing.

ACCT 6320 Financial and Managerial Accounting [3-0] as scheduled

This course is analytical with detailed coverage of both financial and managerial accounting topics. This course is designed for MBA students, and it will not be accepted as a part of a MACC or MSA degree plan for graduation. Prerequisites: ACC 6301 or ACC 2301 and ACC 2302.

ACCT 6322 Special Topics in Accounting [3-0] as scheduled

A study of current and special topics concerning accounting. Emphasis will be toward literature from the professional public accounting societies and governmental agencies. This course has variable content and may be repeated for credit. Recommended Prerequisites: 15 hours of accounting, including ACC 3321, ACC 3323 and ACC 3324 or its equivalent.

ACCT 6323 Accounting Seminar [3-0] as scheduled

Seminar on contemporary international and domestic accounting issues.

ACCT 8321 Seminar in Accounting Topics [3-0] as scheduled

Selected topics in accounting as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. Course may be repeated for credit with different topics.

ANTHROPOLOGY

ANTH 6304 Indians of North America [3-0] as scheduled

To explore the diverse nature of Native American cultures at the time of European contact. In this class students will see how ethnographers, ethnohistorians, and historians have recorded the life ways of contemporary aboriginal societies and have reconstructed their prehistoric past. Consideration will be given to the impact of European contact and how that has altered "Western" images of the North American Indian. Women and men will be equally considered In order to give a balanced view of the richness of these cultures.

ANTH 6305 Great Discoveries in Archaeology [3-0] as scheduled

This course examines many of the most famous archaeological discoveries of the past century that have shed light on humans and their culture, human origins, world history and the development of human behavior. "Popular" assumptions about these finds will be evaluated in light of current anthropological theories and within the historical context of the era In which they were found in order to discern a more accurate knowledge of the past.

ANTH 6306 Anthropology of Borders [3-0] as scheduled

Anthropology of Borders takes border zones and issues crucial to understanding them both as its field site and point of comparative analysis. From Spanish-French Catalonia to the borderlands of Indonesia, this course investigates issues commonplace to zones of contact such as linguistic variation and innovation as well as the role of the state in construction and codifying notions of citizenship. By looking at borders from a comparative ethnographic perspective the course seeks to contextualize issues faced by borderlanders of South Texas within a global framework.

ANTH 6307 [3-0]
Shipwrecks, Pirates, and the Sea:
An Introduction to Maritime Archaeology and History
as scheduled
 Maritime archaeology is a profession combining traditional fields and extensive experience. Anthropology, history, archaeology, geography and related sciences provide the theoretical and practical methodology with which maritime sites are found, tested and interpreted. This course is designed to provide students with the field's background, range and relevant examples involving both history and archaeology.

ANTH 6308 [3-0]
Conquistadors and Indian Chiefs of the Borderlands: A
Comparative Colonialism of Northern New Spain
as scheduled
 This course covers Spanish and Native American interactions in what is today the Southeastern United States, Texas and California. Emphasis will be placed on how the social and natural environment was changes in these areas. Examination of these changes will be done through the documentary and archaeological records.

ANTH 6310 [3-0]
Food and Culture
as scheduled
 This course examines the interaction between human culture and food from an anthropological perspective. It examines the social roles of food and how economic forces are transforming food systems in the world today.

ANTH 6311 [3-0]
Medical Anthropology
as scheduled
 This course introduces students to the diverse filed of medical anthropology. It examines the human experiences of health and diseases in cross-cultural, historical, and evolutionary perspectives.

ANTH 6312 [3-0]
Political and Legal Anthropology
as scheduled
 This course involves the anthropological analysis of political and legal institutions as revealed in relevant theoretical debates and with reference to ethnographic examples. Topics included in this course are the development of political and legal anthropology and their key concepts; studies of the state; kingship; and other forms of authority; forms of knowledge and power; political competition and conflict; indigenous responses to colonialism; civil society and citizenship; nationalism, ethnicity, and genocide; theories of order and normative domain; law as command and law as rules; the legal dimensions of hierarchy and authority; dispute institutions and processes; legal pluralism; Indian Islamic and other non-Western legal systems.

ANTH 6314 [3-0]
Environmental Anthropology
as scheduled
 An introduction to human/environmental interactions from various anthropological perspectives; history of anthropological approaches to the environment, emphasizing the mutual interconnectedness of people and nature; survey of evolutionary models, cultural ecology, systems approaches, indigenous knowledge, ethno ecology, nature and the state, political ecology, eco-feminism, environmentalism, and environmental justice.

ANTH 6323 [3-0]
Mexican American Culture
as scheduled
 An introduction to the culture and traditions of Mexican Americans. The cultural history, organization of the family, traditions, lifestyle, kinship patterns, values, social organization of Mexican American culture will be examined using appropriate methodologies and theoretical perspectives set within a multicultural context.

ANTH 6333 [3-0]
U.S. and Other World Cultures
as scheduled
 This course is concerned with the many aspects of human culture ó including traditions, customs, folkways and religious beliefs ó on local, national and worldwide levels. It explores topics ranging from roles and responsibilities in the family unit to the interaction of different cultures with their social and physical environments. As the course assesses important contributions of various past and present cultures, considerable emphasis is placed on similarities and differences between the United States and other world cultures.

ANTH 6337 [3-0]
Foundations of Ethnomusicology/Anthropology of Music
as scheduled
 This course introduces students to Interdisciplinary perspectives in the field of ethnomusicology providing an enriched understanding of the role of music in human life. A wide range of musical traditions and perspectives are explored as well as social and cultural contexts, functions, meanings of – and ideas about – music, and its local/global impact.

ANTH 6338 [3-0]
Music Ethnography and Fieldwork Methods
as scheduled
 This course introduces students to a variety of musical case studies drawn from the fields of ethnomusicology, folklore, anthropology and sociology. They will analyze research methodologies, approaches to fieldwork, issues and ideas, and analytical methods locally and globally. They will conduct fieldwork and write an ethnography.

ANTH 6345
Anthropological Method and Theory [3-0]
as scheduled

Instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology.

ANTH 6348
Peoples and Cultures of Mexico [3-0]
as scheduled

This course is an introduction to the diverse peoples and cultures of Mexico and Central America. The traditions, beliefs and practices of different cultures will be examined through an emphasis on the ethnography and ethno history of indigenous cultures of the region.

ANTH 6350
Mexican American Folk Medicine
as scheduled

A study of popular medical traditions found among Mexicans and Mexican Americans. Influences from European and Native American sources will be identified and ongoing changes in the folk medical landscape will be examined.

ANTH 6355
Psychology and Mythology [3-0]
as scheduled

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. Previous Course Number: ANTH 5355; a student may receive credit in only one course. Equivalent Course: May be counted as PSY 6355; a student may receive credit in only one course.

ANTH 6363
Archaeological Method and Theory [3-0]
as scheduled

Reviews major theoretical orientations from an historical perspective with an emphasis on current approaches. Examines major aspects of archaeological methodology including excavations and laboratory procedures, sampling strategy, dating techniques and floral and faunal analysis.

ANTH 6365
Archaeology of South America [3-0]
as scheduled

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 [3-0]
Archaeology of Mexico and Central America
as scheduled

A study of the prehistory of Mexico and Central America beginning with the first cultures to inhabit the area and ending with the arrival of the Spanish. Major civilizations of the area will be emphasized, including the Olmecs, Mayas and Aztecs.

ANTH 6373
Archaeology of Ancient Egypt
as scheduled

A study of the prehistory and history of ancient Egypt from the time of the first inhabitants in the area to the arrival of the Romans. Emphasis will be placed on the architectural and artistic achievements of Egypt during the time of the pharaohs. Aspects of ancient Egyptian social classes and religious beliefs and practices will also be explored.

ANTH 6374 [3-0]
Archaeology of North America
as scheduled

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 [3-0]
Mexican American Folklore
as scheduled

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 6380 [3-0]
Social Anthropology
as scheduled

A cross-cultural review of kinship, economic and political organization. The course will review rules of marriage, descent groups, reciprocity, bands, tribes and chiefdoms among other topics.

ANTH 6385 [3-0]
Topics in Anthropology
as scheduled

Topics are varied according to availability of faculty and student interest. Course can be repeated as topics change.

ANTH 6390 [3-0]
Directed Studies
as scheduled

A study of selected topics in anthropology. Topics are varied according to availability of faculty and student interest. Course can be repeated for credit as topics change.

ANTH 7300Thesis
as scheduled

Research and writing of the thesis.

ANTH 7301Thesis
as scheduled

Research and writing of the thesis.

ANTH 7600Thesis

as scheduled

Research and writing of the thesis.

ANTH 7601Thesis

as scheduled

Research and writing of the thesis.

ART

ART 6301

**Studio Experience (2-D) [3-0]
as scheduled**

Exploration of personal vision within a two-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. Prerequisite: Graduate standing.

ART 6302

**Studio Experience (3-D) [3-0]
as scheduled**

Exploration of personal vision within a three-dimensional framework. Emphasis on group discussion and clarification of direction. Repeatable for a total of 12 hours. Prerequisite: Graduate standing.

ART 6303

**Graduate Studio Techniques (2-D) [3-0]
as scheduled**

This course is intended for pursuing a minor area. Emphasis will be given to working in a technical direction outside the student's designated major area. Repeatable for a total of nine hours. Prerequisite: Graduate standing.

ART 6304

**Graduate Studio Techniques (3-D) [3-0]
as scheduled**

This course is intended for pursuing a minor area. Emphasis will be given to working in a technical direction outside the student's designated major area. Repeatable for a total of nine hours. Prerequisite: Graduate standing.

**ART 6337 Design Seminar [3-0]
as scheduled**

Concentration on design processes, research, and methodologies. Students work on project-specific assignments and assigned readings for discussion. Repeatable for a total of 9 hours. Prerequisite: Graduate standing.

**ART 6338 Design Lab [3-0]
as scheduled**

Provides students the opportunity to test and expand their ideas through implementation of design research in a lecture, exhibition, or publishing environment. Repeatable for a total of 12 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 prior to A.D. 1521 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 since A.D. 1521 will be presented. Paper required. Prerequisite: Graduate standing.

ART 6354

**Topics in Art History [3-0]
as scheduled**

Seminar/lecture concerned with the philosophical overviews of selected art epochs will be presented. Paper required. Prerequisite: Graduate standing.

ART 6383

**The Art Profession [3-0]
as scheduled**

Strategies for professional representation, establishing an art business and considerations for teaching in higher education are discussed in a seminar format. A review of financial opportunities is also included. Paper required. Prerequisite: Graduate standing.

ART 6387

**Special Topics Studio [3-0]
as scheduled**

Topics for graduate instruction. This course may be taken more than once if the topic changes. The class is designed to immerse students within an artistic discipline with the opportunity to study specialized studio art topics outside the established graduate curriculum.

ART 6605
Graduate Studio (2-D) [6-0]
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) [6-0]
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 6639
Design Studio [6-0]
as scheduled
 A structures course based upon advanced design issues. Students work in a collaborative environment using design as an effective method of change and research. Repeatable for a total of 12 hours. Prerequisite: Graduate standing.

ART 7300
Graduate Exhibition [3-0]
as scheduled
 Planning and producing an exhibition for work previously prepared for this course. This course will be taken during the student's final semester of study.

ART 7301
Graduate Paper [3-0]
as scheduled
 A description paper focused on the considerations that were made manifest through the works included in the Graduate Exhibition. This will be the final requirement for completion of the MFA degree and will be taken in conjunction with ART 7300. The paper will be presented to the student's graduate committee.

BUSINESS DOCTORAL DISSERTATION

BADM 9310
Comprehensive Independent Studies [3-0]
as scheduled
 Doctoral students will conduct Independent study in preparation for their comprehensive exams.

BADM 9391
Dissertation (Extension) [3-0]
 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 [6-0]
 Students register for this course following completion of all other doctoral course requirements and successfully completing the comprehensive examinations. This course must be registered for a minimum of two consecutive long semesters of six hours each. If the dissertation is not completed following the 12-hour requirement, the student must register in three hours of BADM 9391 each semester in continuous enrollment, including one summer session, until successful defense of the dissertation. May be repeated.

BIOLOGY

Graduate standing is a prerequisite for all graduate Biology courses. Credit for a 5000-level course is not given to a student with previous undergraduate credit for a similar course.

BIOL 5304
Advanced Ichthyology [2-3]
as scheduled
 A study of ecology, distribution, adaptations, physiology, systematics and evolution of freshwater and marine fishes with an emphasis on local forms. Laboratories will stress identification and other practical applications of modern ichthyological techniques. Laboratory fee.

BIOL 5307
Host-Parasite Relationships [3-3]
as scheduled
 A comprehensive analysis of the interrelationships between host and parasite. Modern laboratory techniques essential to understanding these interrelationships will be considered. Laboratory fee.

BIOL 5313
Advanced Endocrinology [3-0]
as scheduled
 Advanced study of the endocrine system with emphasis on humans. Topics include: hormonal control of homeostasis, feeding, stress and reproduction; function of endocrine organs, cellular mechanisms of hormone action, and animal models of endocrinology, endocrine techniques and endocrine related diseases. Credit Restriction: Credit cannot be given if BIOL 4313 has been taken
 Prerequisite: Graduate Standing

BIOL 5315
Advanced Entomology [3-3]
as scheduled
 An advanced treatment of the science of entomology. Includes applied aspects of insect morphology, physiology, classification and pest management. Laboratory consists of insect identification supported by field trips.
 Prerequisite: BIOL 3414. Laboratory fee.

BIOL 5316
Advanced Environmental Toxicology [3-3]
as scheduled

An advanced treatment of physiological and systematic interactions of environmental pollutants with biological systems. Laboratory consists of toxicological evaluations of selected chemicals. Prerequisites: Four hours from BIOL 3412 and six hours of organic chemistry or biochemistry. Laboratory fee.

BIOL 5317
Advanced Bacterial Genetics [3-3]
as scheduled

Bacterial genetics from both classical and molecular perspectives. Topics include transcription, translation, mutagenesis, transduction, transformation, conjugation and transposition. The lab is structured as a semester-long research project in which bacterial strains are randomly mutagenized, mutants are analyzed, and the mutated gene is identified. Laboratory fee.

BIOL 5318
Advanced Topics in Ethnobotany
as scheduled

Surveys on the historical uses of plants and their impacts on the evolution of human civilizations, natural sciences and natural environments. Emphasis is placed on the practice of artificial selection and the exploitation of plant-based foods, medicines, stimulants, psychoactive compounds, fibers, spices, aromatics, bio-fuels and construction materials. The promise of new and powerful biotechnological tools will be considered in light of economic and environmental concerns.

BIOL 5319
Advanced Medical Entomology
as scheduled

Study of medically important insects. The focus will be on insect vectors and the diseases that they can transmit. We will examine insect life history, population dynamics, ecology, and human impact. We will also cover some basic epidemiology and disease transmission models.

BIOL 5344**Advanced Mammalogy** [2-3]
as scheduled

A study of anatomy, evolution, distribution, systematics, ecology and physiology of mammals of North America. A research project is required. Critical review of current literature and studies of recent advances in mammalogy are emphasized. Laboratory fee.

BIOL 5388
Advanced Global Change Ecology [3-0]
as scheduled

This course will cover different aspects of global change, a critical environmental problem caused by human activities (e.g., non-sustainable agricultural practices). This course will address lectures, discussion, and assignments related to topics such as habitat transformation, species extinctions,

and spread of diseases, invasive species, global warming and the impact of these factors on conservation efforts.

Prerequisite: Graduate Standing

BIOL 5403
Advanced Remote Sensing Technology [3-3]
as scheduled

This course provides training in the use of electromagnetic radiation for monitoring environmental conditions and resources. Emphasis will be placed on the operation of various remote sensors, collection of analog and digital data, and use of computer software for image processing, interpretation and integration of imagery into geographic information systems.

Prerequisite: Consent of instructor.

BIOL 5404
Molecular Virology
as scheduled

This course emphasizes current research on the genome organization and replication of viruses, functions and regulations of viral genes, molecular mechanisms of virus-host and virus-vector interactions, and novel molecular control strategies. Students will be introduced to the history of virology, taxonomy of viruses, symptomatology, epidemiology, diseases and management of viral diseases.

Prerequisite: BIOL 3403. Laboratory fee.

BIOL 5406
Advanced Mycology [3-3]
as scheduled

Subject areas shall include morphology and taxonomy, structure-function relationships, physiology and genetics, molecular biology, parasitism of animals and plants, applied and environmental mycology.

Prerequisites: BIOL 3402, BIOL 3412 or BIOL 3413.

BIOL 5408
Advanced Plant Pathology [3-3]
as scheduled

The causes, nature and control of plant diseases. Principles of plant disease development. Laboratory fee.

BIOL 5409
Advanced Herpetology [3-3]
as scheduled

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: Graduate standing. Laboratory Fee.

BIOL 5410
Marine Plant Science [3-3]
as scheduled

The common local marine flora including the microscopic and algal forms and aquatic angiosperms. Credit Restriction: Not open to students with previous credit for BIOL 4410. Laboratory fee.

BIOL 5411 [2-3]**Advanced Ecological Physiology of Animals as scheduled**

A comparative study of the physiological adaptations of vertebrate animals to their environments. Emphasis is placed on the physiological basis of animal distribution and evolution.

BIOL 5412 [3-3]**Advanced Ornithology as scheduled**

Studies in avian biology with emphasis on taxonomy, behavior and ecology. Cannot take for credit if have had BIOL 4412 or equivalent. Laboratory fee.

BIOL 5414 [3-3]**Advanced Topics in Plant Systematics as scheduled**

A study of literature and methods of experimental plant systematics, phylogenetic considerations, field and herbarium techniques and modern biosystematic approaches applied to selected taxa will be emphasized. Laboratory fee. Prerequisite: Graduate standing

BIOL 5418 [3-3]**Advanced Electron Microscopy as scheduled**

An introduction to electron microscopy including scanning and transmission electron microscopy. Topics include the principles of electron microscopes, cell ultrastructure, specimen preparation, microtomy, immunocytochemistry, operation of electron microscopes, darkroom techniques and graphic arts. Prerequisites: CHEM 1301 and 1101 or PHYS 1401. Laboratory fee.

BIOL 5420 [3-3]**Advanced Biotechnology as scheduled**

This course will use computational methods, online databases and Internet resources to answer questions in biology ranging from organismal development to human disease. The laboratory will be Internet-based and the students will explore online database resources to answer questions in a wide variety of areas relating to cellular and molecular biology.

Prerequisites: Graduate standing

BIOL 5424 [3-3]**Advanced Microbial Ecology as scheduled**

An introduction to the diversity of microbes found in nature. Emphasis is placed on the ecological significance of bacterial communities found in terrestrial, aquatic and extreme environments, as well as their metabolic activities, interactions and survival strategies. Microbial bioremediation and biogeochemistry are also addressed.

BIOL 5426**Advanced Marine Ecology as scheduled**

This course will include discussion of marine ecosystems and processes with a focus on the marine environment of South Texas.

Prerequisite: BIOL 3409 Ecology.

BIOL 5445 [3-3]**Advanced Plant Physiology as scheduled**

Physiology of plants, cell structure and function, nutrition, metabolism and factors influencing growth and development. Prerequisite: Graduate standing

BIOL 5452 [3-3]**Advanced Marine Zoology as scheduled**

Structural, physiological and ecological relationships of common marine animals, stressing invertebrates of coastal waters. Prerequisite: BIOL 3414 recommended. Laboratory fee.

BIOL 6101 [1-0]**Biology Graduate Seminar as scheduled**

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 6303 [3-3]**Advanced Ecology as scheduled**

Utilization of modern techniques to analyze interrelationships between plants, animals and the environment. Terrestrial and freshwater environments will be considered. Laboratory fee.

BIOL 6304 [3-0]**Systematic Biology as scheduled**

Theory and methods of taxonomy, classification, phylogeny and biogeography.

BIOL 6305 [3-3]**Biometry as scheduled**

Statistical analysis and principles as applied to biological problems. Recommended Prerequisite: Undergraduate statistics course. Laboratory fee.

BIOL 6307
Animal Bioenergetics [3-0]
as scheduled
 This course provides a detailed examination of the ecology and physiology of energy extraction and allocation in animals. The effects of temperature and the proximate and ultimate mechanisms that drive allocation strategies under varying environmental conditions will be emphasized. Students will gain experience in critical thinking about their own research and the research of others through weekly paper discussions.
 Prerequisite: Graduate standing

BIOL 6308
Plant-Microbe Interactions [3-0]
as scheduled
 The course will cover advanced plant pathology topics and several others not covered in BIOL 4408/5408. The graduate student will become familiar with the concepts underlying the interactions of microbes and plants across a continuum of symbioses. Modern ideas from very recent scientific literature concerning the molecular nature of plant pathogenicity and resistance will be emphasized.
 Prerequisites: BIOL 4408 or BIOL 5408; BIOL 3401, BIOL 3412, BIOL 3413 or BIOL 3415; consent of instructor.

BIOL 6313
Advanced Cell Biology and Physiology [2-3]
as scheduled
 Detailed lecture and laboratory analysis of typical cellular structure and dynamics with emphasis on the anatomical and physiological mechanisms underlying the functioning of selected specialized cells. Prerequisite: BIOL 3412.
 Laboratory fee.

BIOL 6316
Molecular Genetics [3-0]
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.

BIOL 6319
Scientism [3-0]
as scheduled
 A study of the characteristics of science and the relationship between modern science and culture. A student interactive course investigating how science actually proceeds, how it should ideally be carried out, the motivations and roles of the individuals involved, and their interaction with society as a whole.

BIOL 6322
History of Biology [3-0]
as scheduled
 A survey of the events that have led to the development of biology as a science, with in-depth discussions of the order, timing and chronology of discoveries in biology from

antiquity to the present. Trends of thought in the biological sciences with emphasis on notable contributors will be highlighted.
 Prerequisite: Graduate standing

BIOL 6324
Evolutionary Theory [3-0]
as scheduled
 Examination of current and historical concepts in research on micro and macroevolution. Topics include natural and sexual selection, adaptation, homology, phylogenetic reconstruction, gene flow, molecular evolution, speciation, hybridization and extinction.

BIOL 6365
Graduate Biological Research Problems
as scheduled
 The student, in conference with a member of the graduate faculty, will define an independent research problem. The subject of the research may be in the area of botany, microbiology or zoology. The student's committee or the department chair, if the student has not yet formed a committee, will approve the problem prior to enrollment. If undertaken in summer, the student should enroll in no other course that summer term. The student's report will be written in an approved thesis style. One copy will be retained by the faculty member directing the research, and one copy will be placed in the student's file in the departmental office. A maximum of three hours undertaken in graduate biological research problems will count toward a Master of Science degree in Biology. Laboratory fee.

BIOL 6398
Advanced Topics in Biology I
as scheduled
 Topics will cover specialized areas of study in the biological sciences that tend not to be part of regular course offerings. Subjects may vary from semester to semester, depending on the faculty member teaching the course. A student may take this course up to two times for credit.

BIOL 6399
Advanced Topics in Biology II
as scheduled
 Topics will cover specialized areas of study in the biological sciences that tend not to be part of regular course offerings. Subjects may vary from semester to semester, depending on the faculty member teaching the course. A student may take this course up to two times for credit.

BIOL 6412
Subtropical Ornithology [3-3]
as scheduled
 Ecology, history, behavior and conservation of subtropical bird communities, focusing on breeding birds of the Lower Rio Grande Valley. Students will perform field studies of birds and several field trips will be held. Laboratory fee.
 Prerequisites: graduate standing or permission of instructor.

BIOL 6420
Plants Biochemistry Molecular Biology [3-3]
as scheduled

The lecture portion of this course will present the unique biological aspect of plants in the context of their biochemistry, physiology and cellular and molecular biology. The laboratory portion of this course will teach students the unique lab techniques involved in the study of plant biochemistry and molecular biology.

BIOL 7300
Thesis
 Laboratory fee.

BIOL 7301
Thesis
 Laboratory fee.
BUSINESS LAW

BLAW 8381
Seminar in Law and Diplomacy [3-0]
as scheduled

Study of the legal environments of different countries and regions and how they affect international business. Emphasis will be on current legal issues and solutions. Essentials of international and public diplomacy, international negotiation strategies and bargaining techniques will also be included. Course may be repeated for credit with different topics.

CHEMISTRY

CHEM 6302 [3-0]
Special Topics in Environmental Chemistry
and Sciences
as scheduled

May include environmental sciences, environmental education, and hands-on environmental experience. May be repeated for a maximum of 6 hours credit. Prerequisite: Acceptance into Chemistry Graduate Program and/or instructor's permission.

CHEM 6305 [3-0]
Biochemistry
as scheduled

This course discusses the mechanisms of biosynthesis of macromolecules, particularly amino acids, proteins, fatty acids, lipids, polysaccharides, purines, pyrimidines and nucleic acids. Emphasis will be given to how these processes are controlled and integrated with the metabolism of the cell and the molecular basis of disorders related to the intermediary metabolism. The molecular mechanism of signal transduction and recombinant DNA technology is also emphasized. Prerequisite: CHEM 3303.

CHEM 6310 [3-0]
Organic Chemistry
as scheduled

The course deals with cycloadditions, unimolecular rearrangements and thermal eliminations. It also deals with modern asymmetric syntheses and their applications to chiral medicinal drugs, stereochemistry of carbon compounds, their principles and applications, molecular symmetry and chirality, dynamic stereochemistry, stereoselective reactions and spectroscopic methods in organic chemistry. Prerequisite: CHEM 2303.

CHEM 6315 [3-0]
Advanced Inorganic Chemistry
as scheduled

Coordination chemistry, ligand and crystal field theories and chemistry of transition elements. Prerequisite: CHEM 3301.

CHEM 6320
Advanced Instrumental Analysis
as scheduled

Advanced study of instrumental analysis and instrumental design. The course covers ultraviolet-visible, infrared, Raman and nuclear magnetic resonance spectroscopy. Prerequisite: CHEM 2301.

CHEM 6325 [3-0]
Advanced Physical Chemistry
as scheduled

Advanced study of various methods for studying molecular structure. Methods covered include quantum mechanics, statistical mechanics, molecular spectroscopy and nuclear chemistry. Prerequisite: CHEM 3304.

CHEM 6330 [3-0]
Special Topics in Organic Chemistry
as scheduled

May include advanced organic preparative laboratory, advanced organic synthesis, polymer synthesis, polymer physics and engineering and organic nanomaterials. Prerequisite: CHEM 2303.

CHEM 6340 [3-0]
Special Topics in Inorganic Chemistry
as scheduled

May include transition metals chemistry relevant to catalysis (such as isomerization, hydrogenation, polymerization and oxidation of olefins and dienes), stereochemistry and spectroscopy, general properties of organometallic complexes, carbonyls, phosphine complexes, ligand substitution reactions, insertion and elimination reactions, homogeneous catalysis, bio-organometallic chemistry and inorganic materials. Prerequisite: CHEM 3301.

CHEM 6350 [3-0]
Special Topics in Analytical Chemistry
as scheduled

May include clinical instrumentation, quality control/ quality assurance, chemical separations, laser analytical chemistry, advance instrumental laboratory investigations, environmental chemistry, geochemistry, marine chemistry and forensic sciences.

Prerequisite: Undergraduate Analytical Chemistry, CHEM 2301.

CHEM 6360
Special Topics in Physical Chemistry [3-0]
as scheduled

May include quantum chemistry, thermodynamics, kinetics, statistical mechanics, group theory and nuclear chemistry. Prerequisite: Undergraduate Physical Chemistry I & II, CHEM 3304 and CHEM 3305.

CHEM 6370
Special Topics in Chemical Education [3-0]
as scheduled

Special topics for the enhancement of chemical education including chemistry, technology, environmental science and other related topics. Prerequisite: Assigned teaching duties or graduate student status. May be repeated for credit up to 9 hours.

CHEM 6380
Special Topics in Biochemistry [3-0]
as scheduled

May include advance biochemical techniques, protein biochemistry, biotechnology, critical developments in biochemistry, advanced training and conduct in biochemistry, enzymes biochemistry and clinical biochemistry. Prerequisite: Undergraduate Biochemistry, CHEM 3303.

CHEM 7101
Seminar I [1-0]
as scheduled

Presentation of the proposed thesis project. Prerequisite: Instructor's permission.

CHEM 7102
Seminar II [1-0]
as scheduled

Presentation of techniques and research plans to be used to accomplish the proposed thesis project. Prerequisite: Instructor's permission.

CHEM 7103
Seminar III [1-0]
as scheduled

Presentation of data and results gathered during the investigation of the proposed thesis project. Prerequisite: Instructor's permission.

CHEM 7325
Master's Project I [3-0]
as scheduled

Project work culminating in a presentation of new teaching strategies, methods and techniques. Prerequisite: Graduate advisor's permission.

CHEM 7326
Master's Project II [3-0]
as scheduled

Research work culminating in a presentation of novel concept and lesson plans applicable to teacher's school-level or college approved by the graduate advisor. Prerequisite: Graduate advisor's permission.

CHEM 7351
Thesis I [3-0]

Research work culminating in a presentation of thesis research data. Prerequisites: CHEM 7101, CHEM 7102 and graduate advisor's permission.

CHEM 7352
Thesis II [3-0]

Research work culminating in a thesis defense. Prerequisite: CHEM 7351 and graduate advisor's permission.

Computer Information Systems

CIS 6335 [3-0]
Selected Topics in Health Computer Information Systems
as scheduled

An in-depth analysis of contemporary health computer information systems (HCIS) topics with emphasis on electronic health records (EHR) and health information exchange (HIE). It addresses Stages I, II and III of "Meaningful Use" requirement by the U.S. government. Can be retaken for credit for a maximum of nine hours.

CIS 6340
Health Computer Information Systems [3-0]
as scheduled

This course provides the knowledge about fundamentals of health Information Systems and the role of Information systems in efficient operation of healthcare organizations. The course specifically focuses on: Evolution of HMIS, HMIS components and basic HMIS functions, technology infrastructure for healthcare organizations, basic concepts such as HER, HIE, CPOE, and CDSS, HMIS standards such as HIPPA, HL7, and DICOM, strategic information systems planning for healthcare organizations, systems analysis and project management, information security issues, and role of HMIS professionals in health organizations.

CIS 6350
Data Modeling and Business Intelligence [3-0]
as scheduled

This course focuses on the characteristics, uses, and design strategies for IT-enabled managerial decision support. data-oriented methods for business intelligence and organizational decision making are emphasized. Technology context includes an overview of business intelligence framework, business process management and application-based business analytic and reporting. Specific techniques include business reporting using pivot tables, extraction, cleaning and querying of business data. Application areas

include healthcare, retailing and manufacturing etc.

CIS 8318
Global Information Systems [3-0]
as scheduled

This research seminar deals with concepts, systems, and technologies affecting the effective management of global information systems. Students will lead discussions on a variety of contemporary issues that impact transnational information technology practices, decisions, strategies, and policies. In particular, students will serve as facilitators to examine and critique emerging trends in the literature dealing with critical aspects of global information technology management.

CIS 8330 [3-0]
Information Technology Concepts and Research Methods
as scheduled

This seminar introduces doctoral students to fundamental concepts and methods in information technology research. Students will get exposure to behavioral and technical research that covers a wide range of topics such as the system concepts, the productivity paradox on information technology investment, the technology acceptance model and information systems design methodologies.

CIS 8338 [3-0]
Computer Information Systems Theories and Pedagogy
as scheduled

Students will develop an understanding of the major theories used in behavioral and organizational, economic, and technical research in information systems. Also, students will be introduced to teaching methods and techniques specific to CIS course content in a university context.

CIS 8348
Data Mining and Business Intelligence [3-0]
as scheduled

This course introduces students to data mining techniques and their applications in business intelligence. Students will be introduced to the algorithm and software to conduct data mining using regression, classification tree, neural network and other methods. The business intelligence applications deal with the data collection and organization using database and data warehousing technologies as well as the result interpretation and utilizations in specific business contexts.

CIS 8358
Information Technology Administration [3-0]
as scheduled

This course takes a practical approach to business problem solving through the administration of IT-related resources. The student will be exposed to topics such as IT project management, organizational information assurance and business information security.

CIS 8368
Selected Topics in Computer Information Systems [3-0]
as scheduled

Topics of historical, current and future relevance in the design, development, installation and management of computer information systems are examined using readings, case studies and lectures.

CLINICAL LAB SCIENCE

CLSC 5227
Clinical Laboratory Methods [1-3]
as scheduled

Lecture and laboratory course that introduces the student to the medical laboratory. Emphasizes appropriate laboratory studies for specific disease, normal laboratory values and procedures for obtaining samples. Students are given the opportunity to perform routine lab studies.
Prerequisites: Admission into the Physician Assistant Studies Program

COMMUNICATION DISORDERS

NOTE: The American Speech-Language-Hearing Association (ASHA) defines areas within Communication Disorders for the purpose of describing programs and requirements.

COMD 5320
Advanced Sign Language I [3-0]
as scheduled

This elective, dual undergraduate and graduate-level course allows students to develop in-depth skills in American Sign Language and develop increased knowledge regarding the deaf community. Emphasis in the course is upon acquisition of comprehension and production skills.
Prerequisites: Beginning and/or Intermediate Sign Language at the undergraduate level or consent of the instructor.

COMD 5330
Advanced Sign Language II [3-0]
as scheduled

This elective, dual undergraduate and graduate-level course allows students to develop higher level American Sign Language skills for advanced communication with deaf and hard-of-hearing persons.
Prerequisites: Beginning and Intermediate Sign Language at the undergraduate level, or Advanced Sign Language I at the graduate level.

COMD 6180
Graduate Practicum: Audiology
as scheduled

Supervised clinical practice in audiology.
Prerequisites: COMD 6350, Graduate standing, and admission to the COMD graduate program.

COMD 6301

Clinical Practicum I: Speech Pathology as scheduled

Supervised clinical practice in the UTPA Speech and Hearing Center. Treatment of Mild to Moderate articulation, phonological & language disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours. Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6302

Clinical Practicum II: Speech Pathology as scheduled

Supervised clinical practice in the UTPA Speech and Hearing Center. Treatment of Moderate to Severe articulation, phonological & language disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours. Prerequisites: Graduate standing and admission to the COMD graduate program, and COMD 6301.

COMD 6303

Clinical Practicum III: Speech Pathology as scheduled

Supervised clinical practice in the UTPA Speech and Hearing Center. Evaluation & Treatment of Mild to Moderate articulation, phonological, language, fluency & voice disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours. Prerequisites: Graduate standing and admission to the COMD graduate program, and COMD 6301, 6302.

COMD 6304

Clinical Practicum IV: Speech Pathology as scheduled

Supervised clinical practice in the UTPA Speech and Hearing Center. Evaluation & Treatment of Moderate to severe articulation, phonological, language, fluency & voice disorders. Students should be available for a minimum of 12 hours each week during operating hours of the Speech and Hearing Center so that they may accrue their required clinical practicum hours. Prerequisites: Graduate standing and admission to the COMD graduate program and COMD 6301, 6302, 6303.

COMD 6310

Research in Communication Disorders [3-0] as scheduled

A study of the major methods of research in communication disorders. Basic statistical concepts will be introduced. Students will critique research projects that have been completed and published. Students will select a topic for research; write a clear statement of the problem; write a comprehensive review of the literature and outline the method proposed for addressing the problem.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6320

Speech-Language and Hearing Science [3-0] as scheduled

A study of embryology and neurology and their relation to the speech and language processes and the physics of sound. Modern studies and research in the sciences related to speech and language will be addressed. Prerequisites: COMD 6310 and admission to the COMD graduate program.

COMD 6325

Childhood Language Disorders and Clinical Intervention [3-0] as scheduled

Following a brief review of characteristics of special populations that exhibit abnormal language development, an in-depth study of language development and methods language intervention will be presented. Family-based assessment and intervention will be addressed. Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6330

Fluency Disorders [3-0] as scheduled

A study of theories, research findings, rationales and techniques for clinical intervention of fluency disorders. Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6335

Language Disorders in Adults [3-0] as scheduled

An in-depth study of adult language disorders, including aphasia, head injury and the degenerative diseases. Includes intervention strategies for these disorders. Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 6340

Phonological Assessment and Intervention [3-0] as scheduled

Following a review of phonological theory, a variety of phonological assessment and intervention techniques will be presented. Apraxia of speech will be addressed. Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6345

Voice Disorders [3-0] as scheduled

Following a review of anatomical and physiological bases for voice production, causes of voice disorders, characteristics, and approaches to intervention for a wide variety of voice disorders will be addressed. Prerequisites: COMD 6320, Graduate standing and admission to the COMD graduate program.

COMD 6350
Audiology II [3-0]
as scheduled

Theories and principles of advanced audiological diagnostic measurement. Participation in advanced clinical activities with application of theoretical concepts to various hearing impairments in children and adults.

Prerequisites: COMD 6320, Graduate standing and admission to the COMD graduate program.

COMD 6355 [3-0]
Normal and Abnormal Language Development of
Culturally Diverse Populations
as scheduled

An in-depth analysis of normal and abnormal speech and language acquisition for bilingual and monolingual children. A review of cultural factors that affect the delivery of speech-language pathology services to culturally and linguistically diverse populations. Particular emphasis is placed on differentiating communication disorders vs. differences.

Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 6365 [3-0]
Language Assessment of Culturally and Linguistically
Diverse Populations
as scheduled

The study and application of current identification and assessment techniques for communication disorders in culturally and linguistically diverse populations. Special attention given to differential diagnosis of communication disorders vs. communication differences.

Prerequisites: COMD 6325, Graduate standing and admission to the COMD graduate program.

COMD 6370
Seminar in Speech-Language Pathology [3-0]
as scheduled

The study of principles, methods and procedures for speech-language theory, assessment and/or intervention. Subject matter varies from semester to semester, so that specific communication problems may be studied in depth. The course may be repeated for credit when subject matter changes. With approval, this elective may be substituted for a required course providing the requirement has a similar focus and providing that ASHA's minimum requirements are not compromised. Maximum credit: Six hours.

Prerequisites: Graduate standing and admission to the COMD graduate program.

COMD 6375
Seminar in Audiology [3-0]
as scheduled

The study of principles, methods and procedures for audiological measurement and/or aural rehabilitation. Subject matter varies from semester to semester, so that specific communication problems may be studied in depth. The course may be repeated for credit when subject matter changes. With approval, this elective may be substituted for a required course providing the requirement has a similar focus and providing that ASHA's minimum requirements are

not compromised. Maximum credit: Six hours.

Prerequisites: COMD 6310, graduate standing and admission to the COMD graduate program.

COMD 6385
Dysphagia [3-0]
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 and admission to the COMD graduate program.

COMD 6395
Advanced Clinical Practicum
as scheduled

Students are required to successfully complete at least two semesters of advanced practicum at a minimum two distinctly different off-campus sites. Practicum applications must be submitted before the published deadline. Advanced Practicum involves providing supervised clinical services to individuals at a site other than the Speech and Hearing Center. An off-campus supervisor will direct and evaluate the experience, with the assistance of a clinical director and/or communication sciences disorders faculty as assigned.

Prerequisites: Successful completion of COMD 6301, 6302, 6303, 6304 and all COMD courses.

COMD 6397 [3-0]
Augmentative Alternative Communication
as scheduled

This graduate-level course addresses new AAC technology and its communicative application to those handicapped individuals in need of augmentative and alternative systems and devices. Students will acquire practical skills in applying this technology.

Prerequisite: Graduate standing and admission to the COMD graduate program.

COMD 7300
Thesis: Communication Disorders



Course Descriptions & Faculty

A guided research project on topic of the student's area of interest. Exact guidelines are detailed in the Thesis Manual. Course may not be repeated for credit. Up to three hours may substitute for a related required course. Thesis credit may not count toward ASHA's minimum requirements. May be repeated for credit.

Prerequisites: COMD 6310, and admission to the COMD graduate program.

COMMUNICATION

Explanation of Symbols:

COMM - Communication Course

TH - Theatre Course

COMM 5304
Scriptwriting (TH) [3-0]
as scheduled

Advanced-level course in the art and craft of scriptwriting for stage and screen (motion pictures and/or television). The course is repeatable for credit with new work or work with a different medium.

Prerequisite: With permission of instructor

COMM 5615
Summer Theatre Workshop (TH) [6-0]
as scheduled

Experience in all areas of theatrical presentation. Students assume responsibility for one or more of the following areas: technical theatre, production problems in acting and directing, and theatre business management. Because of the intensive nature of this course, students must have prior permission of the instructor before taking other studies or outside employment during the workshop period.

COMM 5616 [6-0]
Summer Film & Television Workshop (TH)
as scheduled

An intensive workshop in which students participate in the production of a major narrative or documentary work that will embody the principles of television and film. Because of the intensive nature of this course, students must have the instructor's prior permission before pursuing other studies or outside employment during the workshop period.

COMM 6300
Communication Research (COMM) [3-0]
as scheduled

Major methods of research used in the various fields of communication. Each student is responsible for the successful completion of a research project.

COMM 6320 [3-0]
Seminar in Communication Theory (COMM)
as scheduled

Study of the major developments in communication theory. Emphasis is on the effects of human interaction and of the media on individuals and society.

COMM 6321 [3-0]
Seminar in Instructional Communication (COMM)
as scheduled

This course will examine interactions in educational contexts such as student/teacher interactions, student/student interactions and teacher/teacher interactions using instructional communication models and communication theories.

COMM 6322
Culture and Communication (COMM) [3-0]
as scheduled

Study of the relationship between culture and communication with emphasis given to social, psychological, linguistic and nonverbal problems in and the development of strategies for the practice of intercultural and international communication.

COMM 6323 [3-0]
Seminar in Interpersonal Communication (COMM)
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 [3-0]
Seminar in Organizational Communication (COMM)
as scheduled

Theories and models of communication in organizations, design and management of organizational communication systems.

Prerequisite: Graduate standing.

COMM 6326 [3-0]
Seminar in Nonverbal Communication (COMM)
as scheduled

Review and analysis of theory and research in nonverbal communication, including relationship of nonverbal communication to oral communication. Emphasis on intercultural and international nonverbal communication.

COMM 6328
Applied Research in Communication (COMM)
as scheduled

This course provides students with an understanding of the logic underlying empirical inquiry. Specifically, this course prepares students to effectively consume published research reports, competently design and justify a personal research project, and encourages students to develop and demonstrate an understanding of the specific requirements associated with quantitative or qualitative analysis.

Prerequisite: COMM 6300 or permission of instructor.

COMM 6329 [3-0]
Special Topics in Communication (COMM)
as scheduled

Course will focus on current communication theory and research in specialized areas of the discipline. May be

repeated for credit when the topic varies.

COMM 6330 [3-0]
Seminar in Training and Consulting (COMM)
as scheduled

This course explores communication training and development as a research and teaching focus for students interested in applied communication. Specifically, the course provides students with opportunities to identify and assess communication competence, to acquire the skills needed for developing training programs and to gain an understanding of the theoretical and applied elements of adult education.

COMM 6332 [3-0]
Mass Media Campaigns (COMM)
as scheduled

This course will examine the elements of effective campaigns and will analyze the role of the mass media in a variety of social, health and political settings.

COMM 6339 [3-0]
Independent Research (COMM)
as scheduled

This course provides the student with the opportunity for individual investigation of an advanced problem in Communication under the direction and supervision of a graduate faculty member. This course does not fulfill the requirements for any of the courses (COMM 7302, COMM 7303 or COMM 7101) for the thesis option.

Prerequisite: With permission of instructor only.

COMM 6340 [3-0]
Special Topics in Dramatic Literature (TH)
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 [3-0]
Special Topics in Theatre History (TH)
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 [3-0]
Master Class in Theatrical Performance or Production (TH)
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 [3-0]
Performance Theory (TH)
as scheduled

Intensive comparative study of major performance theories, with special emphasis on the contemporary American and European theatre. May be counted for credit two times as

topic changes.

COMM 6345 [3-0]
Theatre Research (TH)
as scheduled

This course covers the major methods of research used in the various fields of theatre. Each student is responsible for the successful completion of a research project.

COMM 6346 [3-0]
History of Theatre I (TH)
as scheduled

A critical study of the history of theatre from its origins until the end of the Jacobean era.

COMM 6347 [3-0]
History of Theatre II (TH)
as scheduled

A critical study of the history of theatre from the Restoration to the present.

COMM 6348 [3-0]
Contemporary Drama (TH)
as scheduled

A study of trends and movements in modern drama with emphasis on works of major playwrights.

COMM 6349 [3-0]
World Drama (TH)
as scheduled

A study of trends and movements in dramatic literature from around the world with emphasis on the works of major playwrights.

COMM 6351 [3-0]
Communication Technology (COMM)
as scheduled

This course surveys emerging communication technologies and examines their social and behavioral impact on human interaction.

COMM 6352 [3-0]
Media, Race, and Ethnicity (COMM)
as scheduled

This course examines the historical and philosophical roots of the concepts of race and ethnicity, and their relation both to migration/immigration and personal/collective identity construction. It also examines the impact of mass media on racial and ethnic identity, using mass communication theory to understand the political and social dimensions of the concepts in question. Topics Particular attention is given to racial and ethnic identity in the U.S.- Mexican border, and the media's influence on conceptions and perceptions.

COMM 6355 [3-0]
Professional Speaking
as scheduled

This course provides students with an understanding of the knowledge and skills used in business and professional situations. The emphasis is on the professionals' use of oral communication as a tool to identify issues, solve problems

and communicate policy.

COMM 6356
Seminar in Persuasion (COMM) [3-0]
as scheduled

This course examines the theories, principles, models and research related to attitude change and social influence. The course takes a contemporary, interdisciplinary approach to persuasion.

COMM 6357
Screenwriting Workshop (TH) [3-0]
as scheduled

A workshop course devoted to the craft of screenwriting. Students will read, write and critique screenplays. The first time they take the course they will write (and rewrite) a 60 page screenplay. The second and third times they take the course they will write (and rewrite) a full length screenplay (120 pages).

COMM 6358
Playwriting Workshop (TH) [3-0]
as scheduled

A workshop course devoted to the craft of playwriting. Students will read, write and critique dramatic fiction. The first time they take the course they will write (and rewrite) a one act play. The second time they will write (and rewrite) a full length play.

COMM 6360 [3-0]
Historical Studies in Mass Media (COMM)
as scheduled

Historical study of cultural, legal and technical movements in print, broadcasting and recorded mass media. May be repeated for credit when topics vary.

COMM 6368
Form and Theory of Playwriting [3-0]
as scheduled

A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of dramatic literature.

COMM 7101
Thesis Research [1-0]
as scheduled

Continuing preparation of thesis in partial fulfillment of the requirements for the master's degree.

COMM 7300
Thesis: Theatre
 Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7301
Thesis: Theatre
 Preparation, completion and submission of an acceptable

thesis in partial fulfillment of the requirements of the master's degree.

COMM 7302
Thesis: Communication
 Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

COMM 7303
Thesis: Communication
 Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements of the master's degree.

CRIMINAL JUSTICE

CRIJ 6301
Theories of Criminal Justice [3-0]
as scheduled

Historical overview of the philosophies and theories of justice that have impacted the American mind, the Constitution, and criminal law; federal and state criminal justice systems, and the processing of the accused and the convicted leading to correctional placement and punishment; critical examination of the criminal justice system in the context of justice needs and reforms.

CRIJ 6302
Advanced Criminology [3-0]
as scheduled

Extent, volume, distribution, types and trends of crime in America; the nature of criminological research and theories; interdisciplinary and critical understanding of crime from philosophical, biological, psychological, and sociological perspectives, with a focus on integrating theories for better explanations.

CRIJ 6303 [3-0]
Criminal Justice Policy Development and Analysis
as scheduled

Policymaking, analysis, application, evaluation, and improvement in criminal justice; defining criminal justice issues for policy-making; the policy-making process; understanding and becoming sensitive to political and sectional interests, and justice needs; examination of current issues in criminal justice, with a focus on policy-making and application.

CRIJ 6304
Criminal Law and Procedure [3-0]
as scheduled

Functions and powers of the courts and court-related entities at the federal state and local level; case disposition by plea bargaining and trial; criminal trial and post-conviction procedures; federal and state constitutional rights and liberties in the criminal context including landmark court decisions; how the US judicial system is impacted by international law and conventions.

**CRIJ 6305 [3-0]
Criminal Justice Organizations: Theory and Behavior
as scheduled**

Organizational theories that apply to the management of criminal justice organizations; current management practices in law enforcement agencies, courts and correctional institutions; introducing innovations in criminal justice organizations by creating appropriate management and leadership styles, and organizational cultures.

**CRIJ 6306 [3-0]
Criminal Justice Research Methods
as scheduled**

Basic qualitative and quantitative research methods and techniques; research ethics; identifying variables; research design, structuring criminal justice inquiry; participant observation/ethnography; overview of basic statistics; introduction to SPSS; writing the research paper. Should be taken in sequence, before CRIJ 6307

**CRIJ 6307 [3-0]
Criminal Justice
Research Methods and Statistics
as scheduled**

Advanced criminal justice research and statistics; probability sampling and hypothesis testing; parametric and non-parametric statistical techniques; multivariate statistics; experiment and quasi-experiment; survey research; survey research project and paper involving data collections, entry, and analysis using SPSS; use of data from documentary and historical records; evaluative and predictive research. Prerequisite: CRIJ 6306

**CRIJ 6308 [3-0]
Youth Crime and Justice
as scheduled**

The volume, extent, distribution, types, trends in youth crime; theories that explain individual and group forms of juvenile delinquency as they relate to individual, family, school, community, and societal causes; an overview of the juvenile justice system and its underlying philosophy; processing and disposing of juvenile cases and matters; victimization of juveniles and protective services available for them; correctional institutions, punishment, and rehabilitation programs for juveniles; critical evaluation of current practices in juvenile corrections; needed changes in the juvenile correctional system to rehabilitate offenders and help prevent juvenile delinquency.

**CRIJ 6309 [3-0]
Correctional Theories and Issues
as scheduled**

Theories and purposes of correction, punishment, and rehabilitation; seriousness of crime, punishment, and sentencing; issues and challenges confronting the federal, state, and local institutions; making corrections work; planning and reorganizing the correctional system for the 21st century.

**CRIJ 6310 [3-0]
Policing in a Democracy
as scheduled**

The democratic foundation of law enforcement in America with focus on issues and challenges confronting federal, state and local police; social resistance to police authority; the course will cover such police issues as legitimacy; lawfulness; role conflict; interagency and international relationships.

**CRIJ 6311 [3-0]
World Criminal Justice Issues
as scheduled**

Historical evolution of legal systems; their social foundations and philosophies; the four major legal systems of the world and their hybrids; evolving convergences and divergences in legal systems; social change and emerging justice views; terrorism, genocide, organized crime, smuggling, and trafficking; roles of Interpol, the UN, World Court, International Court, and Amnesty International.

**CRIJ 6313 [3-0]
Special Topics in Criminal Justice
as scheduled**

A "Special Topics" course in criminal justice gives graduate students an opportunity to study contemporary issues in crime and criminal justice. May be repeated once if new topic.

**CRIJ 6314 [3-0]
Women, Law and Justice
as scheduled**

An overview of laws of subordination and liberation in American history; patriarchy and gender inequality; legal and social barriers to justice and equality of women; overcoming gender inequalities through changes in law, social attitudes, and incorporation of males to women's progress; enabling males and females to respect each other by creating a nonviolent ethos.

**CRIJ 6315 [3-0]
Victimology
as scheduled**

Patterns of crime and victimization, especially as they relate to homicide, assault, rape, robbery, and hate crimes. Crime and victimization in domestic, known, and stranger contexts. Distribution of crime and victimization in terms of demographic characteristics (age, gender, class, and ethnicity), and geographical areas (national, regional, city, and other community contexts). Offender-victim interaction; theories of victimization; prevention of victimization.

**CRIJ 6316 [3-0]
Environmental Crime and Justice
as scheduled**

Examines environmental problems, crimes, and justice; bodily and property harms and crimes from local, regional, and global environmental problems; point source and nonpoint source pollution; structural violence; environmental victimology; governmental and non-governmental responses; environmental laws and

regulations; environmental justice and racism, at risk populations (poor, minorities, women, working men); anti-environmental backlash to regulations and laws.

CRIJ 6317
Organizational Crime [3-0]
as scheduled

Criminal, political, business, and other organizational crime and wrongdoing; organized crime; white collar and corporate crime; inquiry into regulatory and remedial measures addressing corporate wrongdoing, such as pollution, deceptive trade practices, securities violations, antitrust, and fraud; examination of corrupt and illegal practices by other organizations, such as unions, interest groups, and political action committees; study of legal and regulatory compliance and enforcement by professions; criminal, administrative, and civil actions addressing organizational and professional malfeasance

CRIJ 6318
Law in Culture and Society [3-0]
as scheduled

Differing conceptions of law and justice; law as a cultural institution reflecting the cultural values and ideals of society; law as an instrument of social change; law as an oppressive and liberating instrument; the cultural foundations of law and their operation in the US, Europe, Asia, Africa, Latin America, capitalistic, socialistic, and primitive and modern societies; examination of how laws function in societies and their consequence for conformity and violation.

CRIJ 6322
Terrorism [3-0]
as scheduled

Causes and forms of terrorism at the domestic and international levels; political, economic, religious, social and national differences among people and their implications for terrorism; a review of major terrorist incidents and groups; their underpinning meanings and what can be done to contain terrorism.

CRIJ 6325
Social Justice and Human Rights [3-0]
as scheduled

An inquiry into the "criminal justice" and "social justice" nexus; creating a "good" and "just" society for reduction in crime and promotion justice, and social well-being; understanding of crime and justice issues in the context of political, economic, social, and cultural forces; conceptualizing models for political, economic, socio-cultural, and legal changes for creating a good and just society to guide social action to control crime and promote justice.

CRIJ 6331
Selected Topics [3-0]
as scheduled

CRIJ 6332
Directed Study [3-0]
as scheduled

This course is to help students pursue research/course in a closely directed/supervised manner.

CRIJ 6333
Independent Study [3-0]
as scheduled

Supervised investigation of a criminal justice problem of special interest to the student. A writing intensive assessment of the central issues and emerging trends in criminal justice provides an opportunity for students to pursue research and/or participate with graduate faculty in research for publication or professional presentation. Students may opt under this to study in-depth theoretical/empirical readings in a substantive area not normally covered in standard courses.

CRIJ 7102
One-Hour Thesis Course [1-0]

CRIJ 7301
7302 Thesis [3-0]
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.

COMPUTER SCIENCE

CSCI 6174
Open Problems in Computer Science [1-0]
as scheduled

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 6302 [3-0]
Foundations of Software and Programming Systems for Information Technology
as scheduled

Focusing on a high level object oriented language (e.g., Java, C++), provides foundational study of algorithms, data structures, and programming systems in the context of information technology systems. Prerequisite: Knowledge of a high level programming language and consent of instructor.

- CSCI 6303** [3-0]
Principles of Information Technology Systems as scheduled
 An introduction to information technology and computer systems. Specific topics provide an overview of databases, knowledge-based systems, e-commerce, software engineering, software tools, programming, and Internet. Prerequisites: Knowledge of a high level programming language and consent of instructor.
- CSCI 6305** [3-0]
Foundations of Algorithms, Data Structures and Programming Languages as scheduled
 In-depth analysis of computing algorithms and data structures for implementation in the context of software engineering design using structured programming languages.
- CSCI 6307** [3-0]
Foundations of Systems as scheduled
 In-depth analysis of operating systems, computer architecture, and distributed processing, focusing on principles of organization and applications across systems.
- CSCI 6312** [3-0]
Advanced Internet Programming as scheduled
 Course covers theoretical and practical methods and techniques for programming on the Internet with a focus on the Web server side. Students will be able to develop highly interactive web-based applications. Prerequisite: Consent of instructor.
- CSCI 6314** [3-0]
E-Commerce Systems and Implementation as scheduled
 Presents the principles E-commerce implementation, examining specific examples in depth. Students implement a working prototype site as class projects. Prerequisites: CSCI 6302 and consent of instructor.
- CSCI 6315** [3-0]
Applied Database Systems as scheduled
 Course covers the application of a modern database system. Concepts covered include relational model, normalization, structured query language, Internet data formats, and server and client side technologies. The course is targeted at students who are interested in the development of application programs using a database system such as Oracle, or Microsoft SQL. Prerequisite: CSCI 6302 or equivalent.

- CSCI 6316** [3-0]
Design for Information Technology Systems as scheduled
 Provides design techniques for information technology systems, including web and mobile technologies. Students complete projects focusing on the critique of existing systems and design of new application systems.
- CSCI 6318** [3-0]
Cyber Security and Forensics as scheduled
 Computer security fundamentals and standard of good practice, and Incident response strategies will be presented. Topics will include analyzing volatile and nonvolatile data, collecting network based evidence, forensic analysis techniques, web, email and registry activity reconstruction, and study of available tools. Prerequisite: CSCI 6303
- CSCI 6323** [3-0]
Design and Analysis of Algorithms 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 6305, or consent of instructor.
- CSCI 6333** [3-0]
Advanced Database Design and Implementation 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 6305, or consent of instructor.
- CSCI 6334** [3-0]
Advanced Operating Systems 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 6307, or consent of instructor.
- CSCI 6335** [3-0]
Advanced Computer Architecture as scheduled
 Covers trends and measuring and reporting of improvements in computer technology; instruction set principles, hardware techniques for instruction level parallelism (ILP) as applied to reduced instruction set architecture (RISC) such as dynamic scheduling and thread-level parallelism; loop unrolling and enhancing loop level parallelism; memory

hierarchy mapping and miss rate reduction techniques and performance calculations; and interconnection network and clusters related issues. This course is equivalent to ELEE 6335. Prerequisite: CSCI 6307.

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 6305 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 6305, 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, and use of CASE tools. Will include a major design project. Prerequisite: CSCI 6305 or consent of instructor.

CSCI 6343 [3-0]
Process Design and Development Methodology
as scheduled

This course covers formal methods, techniques and tools for designing and developing processes; process integration; process evaluation and validation; simulation and modeling; information-based for processes; process management; and professional ethical and legal issues. Prerequisite: Consent of instructor.

CSCI 6345
Advanced Computer Networks [3-0]
as scheduled

In-depth study of theory, design, implementation and performance of computer and communications networks. Current network types, including point-to-point, satellite, packet switch, local area and wide area networks, are studied, as well as evolving technologies such as ATM. Provides an introduction to queuing analysis and includes network programming projects.

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 6305 or consent of instructor.

CSCI 6354
Performance Evaluation [3-0]
as scheduled

Methods and concepts of system performance evaluation are introduced and discussed. Topics include stochastic processes, measurement techniques, monitor tools, statistical analysis of performance experiments, simulation models, analytic modeling and queuing theory, and workload characterization. Prerequisites: CSCI 4334 and MATH 4339 or equivalent background in probability, or consent of instructor.

CSCI 6355
Bioinformatics [3-0]
as scheduled

Examines the creation and development of advanced information and computational techniques for problems in the biosciences, including biology, biochemistry, biotechnology, and medicine. Presents advanced concepts and techniques of bioinformatics and computational biology tools to solve problems in topics such as sequence alignment, gene and motif finding, restriction mapping, microarray data analysis and gene expressions. Prerequisites: CSCI 6305 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 6305 or consent of instructor.

CSCI 6361
Computer Visualization [3-0]
as scheduled

Visualization systems augment quantitatively based systems for presentation of data in a manner facilitating understanding and insight. This course provides an in-depth study of the theory, design, and implementation of computer-based visualization systems. In addition to scientific visualization, visualization of semantic information is also examined. Prerequisite: CSCI 6307.

CSCI 6363
Human Computer Interaction [3-0]
as scheduled
 Presents theory of human-computer interaction, as well as development methods for interfaces, such as user-centered design, prototyping, and participatory design. Course presents evaluation and testing techniques, such as heuristic evaluation, the cognitive walkthrough, and usability testing, as well as user-interface programming and ethical and societal issues.
 Prerequisite: CSCI 6302 or equivalent.

CSCI 6365
Network Management and Security [3-0]
as scheduled
 This course covers topics in the administration of a secure network. Topics covered include: proper planning and installation of a network operating system, administrations of groups, users and resources, challenges and vulnerabilities, authentication and authorization, public key encryption, key management, and Internet protocol security architecture.
 Prerequisite: CSCI 4345 or equivalent.

CSCI 6366
Data Mining and Warehousing [3-0]
as scheduled
 As a multidisciplinary field, draws on work from areas including database technology, artificial intelligence, machine learning, neural network, statistics, information retrieval, and data visualization. Theoretical and practical methods will be presented on knowledge discovery and systems design and implementation. Prerequisite: CSCI 6305.

CSCI 6370
Topics in Computer Science [3-0]
as scheduled
 In-depth study of specific issues in computer science. Subject matter varies from semester to semester. May be repeated when subject matter changes. A total of six hours may be counted toward fulfillment of degree requirements.
 Prerequisite: Consent of instructor.

CSCI 6380
Problems in Computer Science [3-0]
as scheduled
 An area of computer science is examined under the direction of a faculty member prior to enrollment in master's thesis or project courses. Prerequisite: Consent of instructor.

CSCI 6381
Independent Research and Study [3-0]
as scheduled
 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.
 Prerequisite: Consent of instructor.

CSCI 6390
Master's Project [3-0]
 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 [3-0]
 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 6381 and consent of instructor.

ECONOMICS

ECON 6301
Principles of Economics [3-0]
as scheduled
 This course is an introduction to basic economic concepts. Macroeconomic topics will include national income and output, unemployment, inflation and economic, social and political structures and institutions. Microeconomic topics will include consumer choice, the firm's supply decision, product and resource markets, resource allocation and efficiency, and market structures. International/global comparisons will also be discussed when appropriate.
 Prerequisite: Admission to the MBA Program.

ECON 6350
Managerial Economics [3-0]
as scheduled
 This course applies economic analysis to managerial issues in the business world. Specific topics considered include demand analysis, production and costs, pricing policies and market structures. Extensive use is made of case.
 Prerequisites: ECON 6301 or ECON 2301 and ECON 2302.

ECON 6351
Topics in Economics [3-0]
as scheduled
 This course is an in-depth study of specific topics in economics; subject matter varies from semester to semester. This course may be repeated for credit when the topic changes.

ECON 6354
Health Economics [3-0]
as scheduled
 This course presents an overview of health and medical care economics. Topics covered include the production of health, cost and benefit analysis, health care systems and institutions, the demand for health insurance and medical care, medical care production and costs, the physician and hospital services industry, and health care reform.

ECON 8350
Math for Economics [3-0]
as scheduled

This course introduces the mathematical concepts necessary for pursuing microeconomic theory at the Ph.D. level: Theory and application of linear algebra and constrained optimization.

ECON 8351
Seminar in Economic Topics [3-0]
as scheduled

Selected topics in economics as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. Course may be repeated for credit with different topics.

ECON 8355
Microeconomic Theory [3-0]
as scheduled

This course will expose students to a rigorous development of the theory of production, consumption and markets.

ECON 8360
Macroeconomic Theory [3-0]
as scheduled

This course will review theories of productivity, output and employment, as well as consumption saving and investment decisions. An introduction to long-run economic growth, an extension of savings and investment to the open economy and the functioning of the money market will be provided next. Business cycles and the IS-LM/AD-AS models as general frameworks will be discussed, along with exchange rates and macroeconomic policies in the open economy. Monetary policy and the operating procedures of the Federal Reserve System will pave the way for the literature on rules versus discretion. Recent representative articles from professional journals will complement the basic material.

ECON 8365
International Trade [3-0]
as scheduled

This course covers theories on international trade including: comparative advantage, resource allocation, income distribution and foreign trade.

ECON 8370
Econometrics I [3-0]
as scheduled

This course covers cross-sectional data analysis. Prerequisite: ISQM 8311.

ECON 8375
Econometrics II [3-0]
as scheduled

This course covers time-series data analysis. Prerequisite: ISQM 8311.

EDUCATION

ED 6300
Introduction to Research [3-0]
as scheduled

A study of research methods in education including settings that culminates in the successful completion of a research project/paper. Students also will demonstrate skills in the utilization of research facilities and will be introduced to graduate programs in education. Cross-listed with EDCI 6310 and EDUL 6300.

ED 7100
Thesis [1-0]
as scheduled

Students may take this course for continuation of thesis work. Registration requires approval from the student's academic advisor. May be repeated. Prerequisites: ED 7300 and ED 7301.

ED 7300
Thesis [3-0]
as scheduled

ED 7301
Thesis [3-0]
as scheduled

BILINGUAL EDUCATION

EDBE 6319
Bilingual Education [3-0]
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 [3-0]
Bilingualism/Multiculturalism: Critical Issues and Practices
as scheduled

A course designed to provide understanding of the historical, theoretical and socio-political factors that impact bilingualism/multiculturalism in the public school system. The course will emphasize contemporary research findings that affect bilingual educational issues and practices.

EDBE 6324
Dual Language Enrichment Education [3-0]
as scheduled

This course provides a thorough understanding of

research, programs and pedagogical issues in dual language enrichment models of education. It will emphasize the research-based trend regarding the movement of bilingual education instructional models from remedial paradigms of learning to an enrichment paradigm. It will also examine equity and policy issues regarding academic achievement of students from varied backgrounds participating in remedial ESL/bilingual programs versus dual language enrichment programs.

EDBE 6335 [3-0]
Bilingual Content Areas Across the Curriculum
as scheduled

This course emphasizes a variety of advanced instructional strategies appropriate for teaching elementary mathematics, science and social studies through the Spanish and English language to the bilingual child. Specifically, competency will be assessed in the areas of planning, teaching/learning, communication, management, concept development and assessment. Appropriate classroom application of content-area terminology in Spanish/English will be emphasized.

EDBE 6350 [3-0]
The Bilingual Reading Process
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 [3-0]
Research on Language Development in Bilingual Environments
as scheduled

This course will focus on the development of the first and second language as it relates to the dual language enrichment education and other bilingual instructional environments. Research on the similarities and differences between the first and second language acquisition process, including English as a Second Language (ESL) methodology theory and practice, will be analyzed and applied to the bilingual/ESL instructional settings. Analyses will focus on effective development of social and academic linguistic proficiency of learners in the Spanish and English language.

CURRICULUM AND INSTRUCTION

EDCI 6302 [3-0]
Multicultural Education
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 [3-0]
Philosophy of Education
as scheduled

The development of American education in relation to current and historical, 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.

EDCI 6304 [3-0]
Measurement and Evaluation
as scheduled

Students will explore the design, construction and administration of tests with an emphasis on achieving test validity. Student performance on teacher-made, textbook-supplied or standardized tests will be analyzed to determine relevance and appropriateness for informed curricular and instructional decisions. Mandated measures of pupil performance will be investigated with particular regard to their impact on educational practice in schools.

EDCI 6305 Educational Curriculum [3-0]
as scheduled

An overview of theories, principles, practices and issues in curricular planning for modern educational experiences in schools. Emphasis will be placed upon the application of educational psychology in the selection and teaching of curriculum and the achievement of successful classroom management to improve educational practice in schools..

EDCI 6306 [3-0]
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 [3-0]
Research, Issues and Trends in Education
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. may be repeated for credit for maximum of nine hours when topics vary.

EDCI 6308 [3-0]
Advanced Educational Research
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.

EDCI 6310
Research Methods in Education [3-0]
as scheduled

This course will introduce the students to various research methods. Their application for elementary and secondary educators will be emphasized. A qualitative research paper and a quantitative proposal will be required. This course should be taken within the first nine hours of coursework. Cross-listed with ED 6300 and EDUL 6300.

EARLY CHILDHOOD

EDEC 6380
The Young Child in a Multicultural Society [3-0]
as scheduled

A study of the cultural development of young children, beginning with infancy through age eight, focusing on socioeconomic, ethnic and cultural lifestyles of students in early childhood educational programs.

EDEC 6381 [3-0]
First and Second Language Development in Young Children
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 [3-0]
Literacy Development in Early Childhood Education, Ages 0-8
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 I: Curriculum and Models of Early Childhood Education
as scheduled

On-site internship in a public setting with focus on the physical, motor and social development of the young child.

Prerequisites: Twelve Early Childhood M.Ed program graduate hours to include EDEC 6380, EDEC 6381, EDEC 6382, and EDEC 6391.

EDEC 6391 [3-0]
Development and Administration of Early Childhood Programs
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 [3-0]
Internship in Early Childhood II: Ethics and Leadership in Early Childhood Education
as scheduled

On-site internship in a public setting with focus on cognitive, psychological and linguistic development.

Prerequisites: Twelve Early Childhood M.Ed. program graduate hours to include EDEC 6380, EDEC 6381, EDEC 6382, EDEC 6390 and EDEC 6391.

MATHEMATICS EDUCATION

EDMA 6309 [3-0]
Learning Theories for Mathematics Instruction
as scheduled

This course examines instructional learning theories about how people learn mathematics and the ability to apply these theories for effective mathematics teaching. This course will focus on understanding the processes involved in mathematical thinking, the impact of learning theory on mathematics instruction, expert-novice models of mathematical behavior and ways to enhance mathematics learning in the classroom.

EDMA 6328 [3-0]
Mathematics in the School Curriculum
as scheduled

The course presents effective teaching methods and learning materials for the mathematics school curriculum. Current mathematics education research and trends of learning and teaching mathematics for all learners will be discussed, including linguistically-diverse populations. It examines the national and state curriculum standards and their implementation into the mathematics curricula. This course can be repeated for credit when the topic varies.

SCIENCE EDUCATION

EDSC 6326
Science in the School Curriculum [3-0]
as scheduled

This course deals with the purposes, selections and organization of content, teaching and learning procedures and evaluation of outcomes in science instruction. This course can be repeated for credit when the topic varies.

EDUCATIONAL TECHNOLOGY

EDTC 6301
Instructional Technology [3-0]
as scheduled

This course provides a history and overview of the field of instructional technology and technology's role in curriculum development and its impact on school change. Application of technology in classroom instruction will be emphasized. A review of literature in the field of educational technology, demonstrations of technologies in different educational settings and methods of inquiry and analysis to evaluate the effectiveness of instructional programs for teaching and learning will be explored. Strategies for integrating technology into the K-12 curriculum, technology in a student-centered learning environment, cooperative learning, problem solving and higher order thinking skills will be addressed. Strategies for including students with diverse learning needs will be included.

EDTC 6302 [3-0]
Internet & WWW for Teaching and Learning
as scheduled

This course presents educational resources and issues related to K-12 curriculum and instructional materials available on the Internet. An overview of Internet, communication via e-mail, list-serves and chat will be presented. The use of search engines, webquests, online lesson plans and student projects will be explored. Methods for evaluation of materials appropriate for in-class application, evaluation of websites for quality, appropriateness and educational value are presented.

EDTC 6303
Instructional Design [3-0]
as scheduled

This course explores standard and alternative models for designing instruction to guide the student in systematically developing an instructional unit. Course includes examination of theoretical and practical issues in designing effective instruction; use of technology to deliver instruction; designing, development and review of instructional strategies; classroom instruction and appropriate instructional design; creating and evaluating learning systems; and development of educational and instructional

training programs. Practical and theoretical means for ascertaining the needs of learners, implementations of specific technologies to meet those needs and assessment of effectiveness of those technologies in meeting learner's needs will be presented.

EDTC 6304
Multimedia Production [3-0]
as scheduled

This course presents pertinent issues and trends in the selection and development of multimedia for instructional purposes. Research on the design of computer-aided instruction and computer utilization in the K-12 classroom will be explored. Methods of evaluating the scope and sequence of software, software selection and acquisition will be introduced. Students will apply the modern technologies and principles of curriculum development to develop interactive multimedia materials to meet specific instructional objectives, field test their product and assess its effectiveness.

EDTC 6305 [3-0]
Research, Issues, and Trends in Instructional Technology
as scheduled

This course presents critical explorations and discussion of trends and issues of current and historical significance to instructional technology. Readings will include contributions of key scholars, past and present, in instructional technology and examines the role and impact of emerging technologies in education. The course may be repeated for credit when topics vary.

EDTC 6306
Special Topics:
Projects in Instructional Technology [3-0]
as scheduled

In this course students will engage in critical inquiry focused on an emphasis area in educational technology in public schools. Specific topics will vary. Students will complete one or more aspects of a research project resulting in a final project proposal or report. This course may be repeated for credit when topics vary.

EDUCATIONAL LEADERSHIP

EDUL 6236
Problems in Education [2-0]
as scheduled

The course's major emphasis will be on current innovations in education ranging from teacher appraisals to curricular innovations.

EDUL 6300 [3-0]
Introduction to Research and Evaluation as scheduled
 Students enrolled in applied research in educational leadership will complete a research project or field study utilizing mixed-methods as they apply to data-driven decision-making in Pk-12 schools. This course is a prerequisite for all other courses in the educational leadership program.

EDUL 6330 [3-0]
Principles of Public School Leadership as scheduled
 This course is an overview of public school administration with a focus on the principles and procedures for developing and implementing a sound instructional improvement plan. Topics will include assessment of campus needs, school law, taxation, other campus support services, leadership of instructional personnel and staff, finance, budgeting, leadership roles, curriculum, physical plant operation and maintenance as they relate to campus leadership. This course is designed for individuals without a master's degree in educational administration and who are seeking principal's certification.

EDUL 6331 [3-0]
Curriculum and Instructional Leadership as scheduled
 Focus on curriculum development, Implementation and evaluation at all levels of the school and district with an emphasis on instructional leadership practices for teachers, principals and district administrators that improve the teaching and learning processes for the benefit of students. This course is designed for individuals without a master's in educational administration who are seeking principalship certification.

EDUL 6332 [3-0]
Instructional Support Programs and the Law as scheduled
 Emphasis is placed on the administration of special instructional and support programs in the PreK-12 setting. Programs investigated include special education, bilingual education, migrant education, guidance and counseling and other key programs intended to support student learning. The context of course topics will be constitutional provisions, statutory laws, court decisions, torts and regulations governing public schools. This course is designed for individuals without a master's in educational administration and who are seeking principal certification.

EDUL 6333 [3-0]
Curriculum Development as scheduled
 This course examines systematic approaches to developing, implementing and evaluating the K-12 curricula at the, local school district and campus levels. Local compliance options for curricular offerings reflective on current issues and trend studied.

EDUL 6334 [3-0]
Instructional Leadership as scheduled
 This course examines effective instructional approaches and programs used in schools. It explores critical issues specific to curriculum, innovative instructional methods, and the role of educators as school leaders. Additionally, the course focuses on the development of educators as leaders in assessment, research and evaluation.

EDUL 6335 [3-0]
Leadership for Successful Schools as scheduled
 The course builds on the literature on school and community change and practices that work well in a local and regional context of change. This course examines theses relational processes as well as broader cultural and political realities that school leaders must understand In order to lead successful.

EDUL 6336 [3-0]
Problems in Education as scheduled
 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 [3-0]
Administration of Special Instructional Programs as scheduled
 Emphasis is placed on the administration of special elementary and secondary school programs including career, vocational, technical, special, compensatory and reading education.

EDUL 6338 [3-0]
School Principalship as scheduled
 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. This is a field-based course, which requires a minimum of 20 hours in a school setting.

EDUL 6339 [3-0]
Organizational Leadership as scheduled
 A study of major organizational leadership models and their applicability in various school settings. The course focuses on leadership styles used in education. Students will be engaged in identifying major models and comparing them through

field based activities with current leadership styles at school district and local campus levels, as these pertain to decision making and problem solving.

EDUL 6367 [3-0]
Introduction to Statistical Methods and Data-Driven Decision Making
as scheduled

Practical applications on how to utilize descriptive and inferential statistical methods to inform quality data-driven decision making in K-12 school settings. An evaluation or research project that was initiated during EDUL 6300 will be completed during this course. Prerequisites: EDUL 6300 and EDUL 6369.

EDUL 6369 [3-0]
Administrative Technology in Schools
as scheduled

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 6370 [3-0]
Supervision of Instruction
as scheduled

Fundamental problems of the supervision of instruction in public schools; the nature and organization of supervision, supervisory plans and principles; effect of recent educational practices upon supervision; duties, relationships and training of supervisory officials; standards for judging teachers, methods of improving instruction; case studies in supervision; the use of conferences, teachers' meeting, demonstration teaching, visitation and research studies as supervisory agencies; and certification in the Professional Development and Appraisal System (PDAS).

EDUL 6384 [3-0]
Introduction to Educational Administration
as scheduled

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 [3-0]
Public School Law
as scheduled

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 [3-0]
School Support Services
as scheduled

This course will examine the organization and management of school support services to include, but not limited to, student guidance and counseling services, student health

services, food services, maintenance and operation, janitorial services, transportation services and student activity programs/university interscholastic league.

EDUL 6388 [3-0]
Sociocultural Foundations of Education
as scheduled

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 [3-0]
Administration and Organization of School Business Services
as scheduled

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 [3-0]
School-Community Relations
as scheduled

Examination of the relationships between the school and its internal and external constituencies.

EDUL 6393 [3-0]
Administration of School Staff Personnel
as scheduled

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 [3-0]
Internship in Principalship
as scheduled

A field-based course in which students practice competencies and theories acquired as they assume responsibilities associated with the middle management positions in public schools. This course will require a minimum of 140 hours of field experience.

EDUL 6399 [3-0]
Internship in Principalship
as scheduled

Part II of a field-based course in which students practice competencies and theories acquired as they assume responsibilities as principals in local school districts.

EDUL 6436
Problems in Education [4-0]
as scheduled

The course's major emphasis will be on current innovations in education ranging from teacher appraisals to curricular innovations

EDUL 7300
Thesis [3-0]

The student is required to complete an individual research project under the direction and supervision of a graduate thesis committee. The thesis will be defended and approved by the majority of the thesis committee.

EDUL 7301
Thesis II [3-0]

The student is required to complete an individual research project under the direction and supervision of a graduate thesis committee. The thesis will be defended and approved by the majority of the thesis committee.

EDUL 7312 [3-0]
Social-Political Problems and the Superintendency
as scheduled

An analysis of the interrelationships of the local districts with other local political subdivisions; a study of the impact of power structures upon local education; a review of the influence of professional and non-professional organizations upon educational decision-making; and an analysis of the influence of the power structures upon educational decisions. School-community relations are emphasized.

EDUL 7314 [3-0]
The Superintendency
as scheduled

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 [3-0]
Texas School Finance and Facilities Administration
as scheduled

An examination of the basic concepts of Texas school finance including issues involving federal, state and local financial support of education, state financial systems, taxation, budgeting and fiscal management. The course also focuses on the finance of capital programs and includes the planning, maintaining and management of public school facilities.

EDUL 7316 [3-0]
Ethics and Decision Making
as scheduled

An examination of decision-making issues and dilemmas that confront the school superintendent in today's society. Students are immersed in the decision-making process through the use and development of case studies and other simulations that demonstrate how the values and ethics of individual leaders impact their decision-making process.

EDUL 7319 [3-0]
Internship for the Superintendent I
as scheduled

Designed to give prospective school superintendents on-the-job experiences under the guidance of an experienced, practicing public school administrator and under the supervision of a member of the University staff.

EDUL 7320 [3-0]
Internship for the Superintendent II
as scheduled

Designed to give prospective school superintendents on-the-job experiences under the guidance of an experienced, practicing public school administrator and under the supervision of a member of the University staff.

EDUL 8123 [1-0]
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 [1-0]
Topical Seminar
as scheduled

May be repeated for credit when the topics vary.

EDUL 8223 [2-0]
Selected Topics in Research
as scheduled

Group and individual projects in research design, research methodologies and research execution. May be repeated for credit.

EDUL 8301 [3-0]
Leadership and Organizational Behavior
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 [3-0]
Theories of Learning and Instruction
as scheduled

Examination of various theories of learning and instruction and their impact on current teaching practices. Instructional leadership will receive emphasis.

EDUL 8303 [3-0]
Educational Politics and Policy
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 [3-0]
Social and Cultural Contexts of Education
as scheduled
 The relationship of contemporary educational institutions, both public school and higher education to their social setting.

EDUL 8305 [3-0]
Economics of Education
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 [3-0]
Ethics and Values in Educational Administration
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 [3-0]
Organizational Theory in Education
as scheduled
 Application of theories of organization to problems of educational institutions; designed to develop diagnostic skills necessary for successful administration of complex educational enterprises.

EDUL 8308 [3-0]
History of Education
as scheduled
 The development of American education, formal and informal, from colonial times until the present. Areas of emphasis include the historical influences on educational development, the issues of each time period and current trends.

EDUL 8320 [3-0]
Design and Analysis of Field Studies
as scheduled
 Concepts and methods for designing and analyzing research, e.g. surveys, nonequivalent control groups, time-series, or various qualitative designs, will be investigated. May be repeated for credit once.

EDUL 8321 [3-0]
Data Analysis
as scheduled
 Computer methods for qualitative or quantitative analyses of data and management of field research will be investigated. May be repeated for credit once.

EDUL 8322 [3-0]
Qualitative Research I
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 [3-0]
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 [3-0]
Education Law Seminar
as scheduled
 Analysis of legal problems in education, sources of law and the methods of legal research.

EDUL 8334 [3-0]
Topical Seminar
as scheduled
 May be repeated for credit when the topics vary.

EDUL 8336 [3-0]
Problems in Education
as scheduled
 Major emphasis on current innovations in education. Students will conduct research related to selected problems, including action research, and working with educational determinants, new education programs, classroom teachers and/or persons in the community in order to improve the educational program. Credit may be applied toward the graduate programs in education when the appropriate problem is chosen by the student. This course may be repeated once for credit.

EDUL 8340 [3-0]
Higher Education Law
as scheduled
 An overview of historic and contemporary influences of the United States and state constitutions, federal and state statutes, case law and agency regulations that impact higher-education institutions and their administrators, faculties and students.

EDUL 8341 [3-0]
Student Affairs in Higher Education
as scheduled
 A study of the professional foundations and conceptual models for student affairs administration, programs, and services in community colleges and four-year institutions. Also included will be the development of higher education administrative skills, including those of particular relevance to student affairs.

EDUL 8342 [3-0]
Policy, Politics and Governance of Higher Education as scheduled

This course is an advanced study of problems, issues and trends related to governance, organization and control of higher educational institutions.

EDUL 8343 [3-0]
Higher Education Finance as scheduled

Higher Education Finance is a study of contemporary policies and practices in the finance of American higher education. The interpretation and uses of financial data in the administration of institutions; sources and methods of securing funds; budget processes; and policies and issues regarding the finance of higher education are some of the topics considered.

EDUL 8344 [3-0]
The American Community College as scheduled

The American Community College is a study of the institutional components of the community college including a review of history, purposes, clientele, organization, finance, programs, and societal functions. Current issues facing community colleges are studied.

EDUL 8350
Doctoral Internship as scheduled

As stated in the THECB standards for Ed.D. programs in educational administration/leadership, "Each doctoral student will participate in, and be extensively evaluated in, an internship in an operational setting distinct from prior or concurrent work experience." The site will be determined by agreement between the student and her/his adviser. Each student will have this experience during the final 30 hours of the program. The adviser, in cooperation with the onsite cooperating supervisor, will provide continuous monitoring and advisement of the student's experience, beginning with the selection of a set of objectives for the student for the period of the internship. The practicing school leaders used to coordinate field experiences will also be involved selectively in doctoral internships. May be repeated for credit once.

EDUL 8351 [3-0]
Introduction to Applied Research Methods as scheduled

This course will include an introduction to research methodology used in historical, case study, survey, descriptive, experimental, correlational and inferential research.

EDUL 8353 [3-0]
Quantitative Research Methods I as scheduled

Specialized research design and methodology of quantitative inquiry, in univariate and multivariate analysis.

EDUL 8381 [3-0]
Problems in Organization and Administration of Public Schools 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,
Dissertation-Research
 (One, three or six semester credit hours.)

EDUL 8195, 8395, 8695,
Dissertation-Writing
 (One, three or six semester credit hours.)

Electrical Engineering

ELEE 6181 [1-0]
Graduate Seminar in Electrical Engineering as scheduled

Conferences and discussions of various topics in electrical and computer engineering by faculty, graduate students, and speakers from industry and other institutions. Prerequisite: Graduate standing.

ELEE 6300 [3-0]
Signals and Systems as scheduled

Signals theory, Fourier and Laplace transforms, probability, random variables, basic random process, spectral analysis, random signal representations, detection of signals with known and unknown parameters, estimation of signal parameters, applications. Prerequisite: ELEE 3340 or equivalent.

ELEE 6305 [3-0]
Numerical Techniques in Electrical Engineering as scheduled

Survey of numerical and computational techniques including solution of large linear systems, optimization, numerical integration and solution of differential equations, finite difference and finite element techniques, and moment methods with applications and projects selected from all areas of electrical engineering. Course will include both development of programs and use of existing commercial software. Prerequisites: MATH 2401 and 3349 or equivalent.

ELEE 6310 [3-0]
Radio Communication Circuits and Systems as scheduled

Principles, analysis, and design of radio frequency and microwave circuits and systems. Subjects include s-parameters, noise generation and noise figure, harmonic

and intermodulation distortion, and high frequency active devices; with applications to amplifiers, oscillators and frequency synthesis.

Prerequisite: ELEE 4360 or equivalent, or consent of instructor.

ELEE 6315
Applied Electromagnetics [3-0]
as scheduled

Applications of electromagnetic fields and waves, with subjects varying from semester to semester. Topics could include: electromagnetic compatibility (EMC), electromagnetics in satellite and wireless communications, and electromagnetic measurements. May be repeated for credit as topics vary.

Prerequisite: ELEE 3315 or equivalent, or consent of instructor.

ELEE 6320
Semiconductor Devices [3-0]
as scheduled

Theory and application of advanced semiconductor devices including heterostructures, integrated circuits, semiconductor memories, charge transfer devices and microwave devices.

Prerequisite: ELEE 4338 or equivalent.

ELEE 6327
Neural Networks [3-0]
as scheduled

Modeling, analysis, and simulation of artificial neural networks, learning processes for neural networks, supervised learning techniques using back-propagation, self-organizing maps and competitive learning, recurrent neural networks, neuro-dynamical models and Hopfield networks, applications of neural networks to control, pattern recognition, communications, signal processing, forecasting and time-series analysis. Prerequisite: MATH 3349 or the consent of the instructor.

ELEE 6330
Linear Dynamic Systems [3-0]
as scheduled

Introduction to linear dynamic systems, state-space analysis, stability theory, applications to feedback control, and elements of optimal control. Prerequisite: ELEE 4321 or equivalent, or consent of instructor.

ELEE 6331
Nonlinear Systems [3-0]
as scheduled

Introduction to analysis of nonlinear systems, Lyapunov stability analysis, advanced stability analysis, input-output stability, analysis of feedback systems, analysis of singular perturbation models, nonlinear feedback control, feedback linearization, and Lyapunov-based design. Prerequisites: ELEE 4321 and ELEE 6330 or equivalent.

ELEE 6332
Optimization [3-0]
as scheduled

Introduction to linear and nonlinear optimization, Simplex and non-simplex methods, nonlinear constrained optimization methods, genetic algorithms, engineering optimization applications, and numerical methods for optimization of engineering systems. Prerequisite: MATH 3349 or equivalent or consent of the instructor.

ELEE 6335
Advanced Computer Architecture [3-0]
as scheduled

Covers trends and measuring and reporting of improvements in computer technology; instruction set principles, hardware techniques for instruction level parallelism (ILP) as applied to reduced instruction set architecture (RISC) such as dynamic scheduling and thread-level parallelism; loop unrolling and enhancing loop level parallelism; memory hierarchy mapping and miss rate reduction techniques and performance calculations; and interconnection networks and clusters related issues. This course is equivalent to CSCI 6335.

Prerequisite: One of the following: CSCI 6300, CSCI 4335, ELEE 3435 or equivalent.

ELEE 6336
Fiber Optical Communication Systems [3-0]
as scheduled

Theory of light propagation in optical fibers, bandwidth and attenuation of fiber optic systems, principles of semiconductor lasers and photodiodes, design of optical receivers and transmitters, modulation techniques, coherent optical communication systems.

Prerequisite: ELEE 4351 or equivalent.

ELEE 6345
Digital Signal Processing I [3-0]
as scheduled

Properties of discrete signals and systems, reconstruction of continuous waveforms from discrete signals, FFT, DFT, and Z transforms, digital filter design for noisy deterministic and stochastic signals.

Prerequisite: ELEE 4360 or equivalent.

ELEE 6346
Digital Signal Processing II [3-0]
as scheduled

DSP real-time applications, DSP chip architecture, advanced topics in digital signal processing.

Prerequisite: ELEE 6345 or equivalent.

ELEE 6347
Image Processing [3-0]
as scheduled

This course covers topics in image processing. The course covers vision strategies, perception, color image processing, image segmentation, morphology and texture analysis.

Prerequisite: Graduate standing.

ELEE 6350 [3-0]
Microprocessor System Design and Applications as scheduled
 Microprocessor design fundamentals, design methods, Interfacing, bus architectures, peripherals, embedded applications, development systems, software.
 Prerequisite: ELEE 4303

ELEE 6360 [3-0]
High Speed Networks as scheduled
 Introduction to networking concepts, the latest networking architecture and protocols for high-speed communications, Local Area Networks (LANs), Wide Area Networks (WANs), IP/ATM, SONET. Prerequisite: Consent of the instructor.

ELEE 6361 [3-0]
Broadband Communications as scheduled
 Introduction to broadband networking concepts, latest broadband networking technologies and protocols. Broadband backbone and access networks, DSL networks, Fiber-to-the-Curb (FTTC) networks, broadband switching architecture and protocols. Traffic management, congestion control, buffering issues, quality of service for broadband networks.
 Prerequisite: Consent of the instructor.

ELEE 6362 [3-0]
Internet Protocols as scheduled
 This course introduces students to the architecture and the protocols of the Internet. This course focuses on the protocols used by the Internet and investigates how the Internet works and where it will possibly go. Some of the important topics include application protocols, transport protocols, routing protocols, management protocols, quality of service, domain name services and mail services. Basic knowledge of computer networks is required for students taking this course.

ELEE 6372 [3-0]
Parallel and Distributed Systems as scheduled
 Study of parallel and distributed computing, including models algorithms, languages, compilers, interconnection networks and architectures. Distributed data, formal models of concurrency, protection and security in computer networks.
 Prerequisites: ELEE 6335 or equivalent.

ELEE 6374 [3-0]
Advanced Digital System Design as scheduled
 Modern logic design methodologies of large digital systems with standard SSI, MSI and LSI, including CPLD's and microprocessors. Multilevel digital simulation and hardware language description; principles and techniques of testability design and testing of digital logic circuits.
 Prerequisite: ELEE 4303 or equivalent.

ELEE 6375 [3-0]
VLSI System Design I as scheduled
 Fundamentals of VLSI design, VLSI design strategies. Chip design options, design methods, design capture tools and design verification tools. Topics include area-optimization, floor-plan and functional block placement, routing and functional testing for large systems, subsystem design and system design examples. Prerequisites: ELEE 4303 and ELEE 4375 or equivalent.

ELEE 6376 [3-0]
VLSI System Design II as scheduled
 Microelectronic systems architecture; design strategies for test; chip-level test techniques; system-level test techniques; CMOS system case studies; Wafer scale integration; ultra-fast VLSI circuits and systems-Introduction to GaAs technology.
 Prerequisite: ELEE 6375 or equivalent.

ELEE 6385 [3-0]
Independent Study as scheduled
 Individual research, design, or analysis in advanced topics in electrical and computer engineering, conducted under the direct supervision of a faculty member.
 Prerequisite: Graduate standing

ELEE 6399 [3-0]
Topics in Electrical Engineering as scheduled
 Advanced topics of contemporary interest in electrical or computer engineering. May be repeated for credit when topic varies.
 Prerequisite: Permission of the instructor.

ELEE 7300 [3-0]
Master Thesis I
 First part of two-course sequence.
 Prerequisites: Graduate standing and consent of thesis advisor.

ELEE 7301 [3-0]
Master Thesis II
 Second part of two-course sequence.
 Prerequisite: ELEE 7300.



Elementary School Mathematics

EMAT 6396 [3-0]
Special Topics in Elementary School Mathematics
 This course covers special topics in elementary school mathematics teaching. May be repeated when the topic is different. Prerequisite: Consent of instructor.

English

ENG 6301 [3-0]
Introduction to Literary Studies
 as scheduled

The objective of English 6301 is to prepare students to write academic papers at a level that will hone their critical skills and enable them to engage critically with the texts they will be studying in their graduate classes. To accomplish this objective, students will be introduced to the essentials of literary scholarship. They will engage in the research necessary to write a scholarly essay on a work of literature, be introduced to the basic conventions of literary criticism, and become familiar with a documentation style.

ENG 6302 [3-0]
Modern English Syntax
 as scheduled

Studies in modern English syntax with attention given to investigative methods and findings of contemporary linguistic analysis. Special emphasis on the structure of English as a Second Language. Prerequisite: ENG 6350 or consent of instructor.

ENG 6310 [3-0]
Studies in Genre
 as scheduled

Focuses on the literary and cultural productions within the context of a particular genre, including poetry, short story, the novel, drama, autobiography and epistolary literature. May be repeated for credit when the topic varies.

ENG 6315 [3-0]
Workshop in Creative Writing
 as scheduled

Advanced study for creative writing with emphasis on poetry, fiction or non-fiction. Includes workshops of student work and formal study of craft and genre.

ENG 6316 [3-0]
Studies in Mexican American Literature
 as scheduled

Advanced study of the literature by and about Mexican Americans with an emphasis on the literary techniques and the cultural reflections in this literature. May be repeated for credit when the topic varies.

ENG 6318
Studies in Ethnic Literature[3-0]
 as scheduled
 Focus on the literature of specific ethnic groups with special attention to critical race theory, cultural theory and the cultural productions of traditionally underrepresented minority groups. May be repeated for credit when the topic varies.

ENG 6319 [3-0]
Studies in Gender and Literature
 as scheduled
 A study of literature and culture in relation to the question of gender identity, with special emphasis on feminist, gender and homosexuality theory as well as the literary conventions, movements and histories that inform gender identity. May be repeated for credit when the topic varies.

ENG 6320 [3-0]
Introduction to Graduate Studies in Rhetoric, Composition and Literacy
 as scheduled
 Introduces new graduate students in rhetoric, composition and literacy to the discipline, with emphasis on professional issues, research methods and applications.

ENG 6321 [3-0]
Studies in Language and Culture
 as scheduled
 Advanced study of social aspects of language and language use, including language attitudes, sociolinguistic dynamics of language contact situations, language learning and the social and linguistic nature of dialects, language variation and language change. Requires a research project.

ENG 6322 [3-0]
Theory in Rhetoric, Composition and Literacy
 as scheduled
 Focus on various theoretical approaches to the study of discourse with application of theories to a significant analytical project. May be repeated for credit when the topic varies.

ENG 6323 [3-0]
History of Rhetoric, Composition and Literacy Studies
 as scheduled
 Focus on the historical development of rhetoric, composition pedagogy or literacy studies. May be repeated for credit when the topic varies.

ENG 6324 [3-0]
Pedagogy in Rhetoric, Composition and Literacy
 as scheduled
 Explores issues related to the teaching of rhetoric, composition and other literacies, with emphasis on a theoretically informed practice. May be repeated for credit when the topic varies.

ENG 6325
Studies in Composition Techniques [3-0]
as scheduled
 Advanced study of composition theory and techniques and methods of teaching composition, with special emphasis on teaching English composition to college freshmen. Required of all English teaching assistants. May be repeated for credit when the topic varies.

ENG 6326
Professional Writing [3-0]
as scheduled
 Applied study of the theories and approaches to professional discourse production. Student will design and produce a professional writing project.

ENG 6327
Writing Academic Discourse [3-0]
as scheduled
 Provides study and practice writing professional-level academic discourse, including research project design, research proposals, professional journal articles and conference proposals and papers.

ENG 6328 [3-0]
Introduction to English as a Second Language
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 [3-0]
Problems in English as a Second Language
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 6330 [3-0]
Introduction to Graduate Studies in Creative Writing
as scheduled
 A graduate level course in the profession and teaching of creative writing designed to prepare students for graduate level work and prepare them to teach creative writing, prepare publications and conference proposals in the field, as well as to compete for teaching positions and present themselves as professionals. Prerequisites: Acceptance into the MFA program in creative writing.

ENG 6336
Fiction Workshop [3-0]
as scheduled
 A workshop course devoted to the craft of fiction writing. Students will read, write and critique literary fiction.

ENG 6337
Creative Nonfiction Workshop [3-0]
as scheduled
 Advanced study of creative nonfiction. Includes workshops of student writing, along with close analysis of published literary nonfiction and craft commentary by contemporary writers of creative nonfiction.

ENG 6338
Poetry Workshop [3-0]
as scheduled
 Advanced study of contemporary poetry with an emphasis on writing original poems, and discussing them in a workshop format, along with the close reading and analysis of published poems and poetry collections.

ENG 6339
Literature Translation Workshop [3-0]
as scheduled
 A workshop course devoted to the craft of literary translation, primarily Spanish/English.

ENG 6345
Problems in Grammar, Dialects
and Language Performance [3-0]
as scheduled
 A study of the second language learner's transition from regional usage to standard usage. Emphasis on practical implementation of theories of grammar, dialects and language performance. May be repeated for credit when the topic varies.

ENG 6347
Problems in Literary Criticism [3-0]
as scheduled
 Extensive study of major works, figures and topics on literary theory. May be repeated for credit when the topic varies.

ENG 6350
Introduction to Descriptive
Linguistics for Teachers [3-0]
as scheduled
 An introduction to the methods of linguistics science with emphasis on problem solving techniques and the application to specific problems. This course includes a research project exploring the application of linguistics to specific situations.

ENG 6351
Problems in Linguistics [3-0]
as scheduled
 Studies in modern linguistics with emphasis on the practical help, which the science offers to the student of the English language. May be repeated once when the emphasis varies. (Special topics to be announced in the Schedule of Classes.) Prerequisite: ENG 3319 or ENG 6350 or consent of the instructor.

- ENG 6352**
Practicum in English as a Second Language [3-0]
as scheduled
Supervised experience in teaching/working with learners of ESL in (a) ENG 1406, (b) a tutorial, or (c) a laboratory. Actual experience will be based on theoretical principles and methodology of modern language teaching. Sample lesson plans will be developed and tried under the supervision of trained ESL personnel in a university context in order to meet the needs of ESL learners. Prerequisite: ENG 6329 or consent of instructor.
- ENG 6353**
ESL Testing [3-0]
as scheduled
Evaluation of second language learners of English following the principles and guidelines for diagnostic, placement, proficiency and classroom testing in ESL. Areas covered include principles and procedures for selecting, preparing, administering and interpreting results of tests of ESL learning. Prerequisites: ENG 6328 and ENG 6329, or consent of instructor.
- ENG 6357**
Screenwriting Workshop [3-0]
as scheduled
A workshop course devoted to the craft of screenwriting. Students will read, write and critique screenplays. The first time they take the course they will write (and rewrite) a 60-page screenplay. The second and third times they take the course they will write (and rewrite) a full-length screenplay (120 pages).
- ENG 6358**
Playwriting Workshop [3-0]
as scheduled
A workshop course devoted to the craft of playwriting. Students will read, write and critique dramatic fiction. The first time they take the course they will write (and rewrite) a one-act play. The second time they will write (and rewrite) a full-length play.
- ENG 6360**
Studies in English Literature [3-0]
as scheduled
A study in English literature. May be repeated for credit when the topic varies. (Special topics to be announced in the Schedule of Classes.)
- ENG 6362**
Studies in Single Author [3-0]
as scheduled
A study of the literary works and historical epoch of a single author with emphasis on historical, biographical, cultural and aesthetic contexts. May be repeated for credit when the topic varies.

- ENG 6365**
Topics in Literary History [3-0]
as scheduled
A study of the historical and cultural development of literary conventions, movements and/or schools of literary writing. May be repeated for credit when the topic varies.
- ENG 6368**
Form and Theory of Playwriting [3-0]
as scheduled
A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of dramatic literature.
- ENG 6369**
Form and Theory of Screenwriting [3-0]
as scheduled
A graduate level form and theory course designed to strengthen and enhance the student's writing while reading widely in the many forms of film literature.
- ENG 6370**
Studies in American Literature [3-0]
as scheduled
A study in American literature. May be repeated for credit when the topic varies. (Special topics to be announced in the Schedule of Classes.)
- ENG 6380**
Studies in Comparative Literature [3-0]
as scheduled
A study of particular topics, motifs, or genres in the literary or theoretical productions of two or more languages or cultures. May be repeated for credit when the topic varies.
- ENG 6383**
Topics in Post-Colonial Studies [3-0]
as scheduled
Study of particular topics, motifs, theoretical approaches and historical movements in post-colonial literature and culture. May be repeated for credit when the topic varies.
- ENG 6385**
Topics in Cultural Studies[3-0]
as scheduled
Study of the discipline of cultural studies with emphasis on its theoretical basis, significant historical movements, relevant political developments and various cultural artifacts. May be repeated for credit when the topic varies.
- ENG 6386**
Form and Theory of Short Fiction [3-0]
as scheduled
Studies in the elements of short fiction, including narrative design, character development, voice, tone, dialogue, point of view, imagery and plot.

ENG 6387
Form and Theory- Nonfiction [3-0]
as scheduled

Studies in the structure of literary nonfiction, including narrative elements such as characterization, dialogue, point of view and plot, as well as lyric elements such as sound patterning and poetic compression. Suitable for creative writers as well as students of literary criticism.

ENG 6388
Form and Theory - Poetry [3-0]
as scheduled

Advanced study of the forms, techniques and directions of contemporary poetry through intensive reading and writing practice.

ENG 6389
Form and Theory of The Novel [3-0]
as scheduled

Studies in the elements and structure of the novel, including narrative design, character development, voice, tone, dialogue, point of view, imagery and plot.

ENG 6390
Studies in Special Topics [3-0]
as scheduled

Extensive study in topics not limited to American or English literature. May be repeated for credit when the topic varies.

ENG 6399
Independent Study [3-0]
as scheduled

This course permits qualified students, with permission of particular faculty member and the department chair, to expand their study in areas of the department for which stand-alone courses are not offered on a regular basis.

ENG 7300 Thesis
 as scheduled

ENG 7301 Thesis
 as scheduled



Educational Psychology

EPSY 6100 Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6101
Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6102
Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6103
Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6104
Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6105
Seminar in Counseling and Guidance [1-0]
as scheduled

This course will provide the student the opportunity to develop skills related to the helping profession represented through a series of six steps. Primarily for in-service with counselors and teachers. A student may receive from one to six hours credit.

Prerequisite: Permission of instructor.

EPSY 6300
Advanced Individual Differences [3-0]
as scheduled

The content of this course will include the nature of individual differences with emphasis on the learning characteristics and application of research and theory to special education programs. There will be an emphasis on psychological, sociocultural and physical characteristics of exceptional individuals. Analysis of major research regarding contemporary trends, issues and programs for exceptional individuals will be presented.

EPSY 6301
Psychopathology for Children and Adolescents [3-0]
as scheduled

This course focuses on the psychopathology of children and adolescents.

Prerequisite: EPSY 6310 and PSY 6330

EPSY 6302
Psychology of Mental Retardation [3-0]
as scheduled

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]
as scheduled

The content of this course will include the etiology and symptoms of learning disabilities. Implications for the family, education, community and vocational adjustment, within the framework of the child's cultural and linguistic background will be addressed.

EPSY 6304
Culturally and Linguistically Diverse Exceptional Learner I: Problems, Trends and Issues [3-0]
as scheduled

This course will provide an overview of issues related to bilingual education, special education, and bilingual special education. Topics will include legal requirements, assessment, and representation of the Culturally and Linguistically Diverse Exceptional (CLDE) learner in special education.

EPSY 6307
Legal Foundations of Special Education [3-0]
as scheduled

This course presents the information for educators to understand the history and development of special education laws and the requirements of the laws. The emphasis of this course is on the legal requirements of providing a free appropriate public education to students with disabilities.

EPSY 6310
Ethical and Legal Issues in the Role of the School Psychologist [3-0]
as scheduled

History and foundations, ethical, and legal issues of the professional school psychologist are presented. Service models of interventions and professional responsibilities in the role of the school psychologist are included.

EPSY 6311
Applied Behavioral and Cognitive Therapies [3-0]
as scheduled

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]
as scheduled

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 socio-culturally 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 6315
Emotional Disturbance: Strategies, Curricula and Materials [3-0]
as scheduled

Program planning within the framework of the child's cultural background for effective instruction and classroom management of the behaviorally disordered will be addressed. The course will include academic, instruction, social skills, crisis intervention and cognitive and behavioral management strategies. Field experience is required.

EPSY 6316 [3-0]
Reading Instruction within the Context of Response to Intervention as scheduled

A major purpose for this course is to provide students with an in depth examination of the response to intervention model as defined by IDEA 2004. Students will examine the differences between RTI and traditional models of identifying students with disabilities. Critical components of an RTI model will be introduced with emphasis given to the appropriateness and quality of reading instruction. Core components of reading instruction as identified by the National Reading Panel and reflected in the Texas Essential Knowledge and Skills will be studied within the context of an RTI model.

EPSY 6317 [3-0]
Literacy for Secondary Students with Mild Disabilities as scheduled

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 [3-0]
Instructional Technology and Adaptive Assistive Devices for the Exceptional Individual as scheduled

The content of this course will include current instructional technology including computer-assisted instruction, interactive television and adaptive devices used for the cognitively, emotionally, physically and sensory impaired individuals.

EPSY 6320 [3-0]
Consultation and Collaboration with Parents, Professionals and Agencies as scheduled

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 socio-culturally pluralistic. There will be an emphasis on knowledge and concepts related to consultation with special and general education teachers, parents and families, community agencies and systems who deliver services to individuals and clients.

EPSY 6322 [3-0]
Advanced Educational Psychology and Principles of Learning as scheduled

This course integrates theories of educational psychology with practical classroom applications. The focus of this course is to prepare school personnel to meet the needs of learners through realistically evaluating students' needs,

recognizing problems, constraints and limitations in students, in classrooms and in themselves. Course content includes developmental issues, learning cognition and motivational theories, classroom management, instruction, multicultural classrooms and individual differences.

EPSY 6330 [3-0]
Identifying the Gifted and Talented 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 [3-0]
Curriculum, Methods and Materials for the Gifted and Talented 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 [3-0]
Creativity and the Gifted and Talented 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 [3-0]
Counseling the Gifted and Talented 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 socio-drama 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 6338**Atypical Gifted Children [3-0]
as scheduled**

The content of this course will include discussion of the characteristics/behaviors/needs of atypical gifted student, the analysis of procedures for identifying and developing programs for the atypical gifted, and the understanding of the social and emotional needs of this special population of students.

EPSY 6340**Critical and Creative Thinking in Gifted Students [3-0]
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 6346**Independent Study [3-0]
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]
as scheduled**

The content of this course will include partial, semi-partial and multiple correlation and regression analysis; discriminant analysis; experimental design Models I, II, III; ANOVA: repeated measures, higher-order factorial, nested, analysis of covariance; methods of multiple comparisons; introduction to linear models and MANOVA; Hotelling's T-squared, Wilk's lambda, Lawley-Hotelling trace, Roy's GCR. There will be an emphasis on the blending of research design and statistical analysis.
Prerequisite: EDUL 6367 or consent of instructor.

EPSY 6352**Multivariate Analysis [3-0]
as scheduled**

The content of this course will include introduction to exploratory and confirmatory factor analysis; principal component theory; number of factor extracted; path analysis;

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canonical analysis; and analysis of covariance structures.
Prerequisites: EDUL 6367 and EPSY 6351 or equivalent or consent of instructor.

EPSY 6353
Seminar in Statistical Analysis [3-0]
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]
as scheduled

The course in program evaluation includes formative and summative evaluation through decision, program modification, objectives, outcome and performance-based evaluation models that affect policy and program change. This course will require assessing and interpreting a project in program evaluation.

EPSY 6356
Research Methods in Single-Subject Design [3-0]
as scheduled

This course will provide an overview of single subject design research methods and their application within special education. A variety of single-subject research designs will be examined, and the strengths and weaknesses of each design will be identified. Issues related to analysis of data, social validity and ethical use of single-subject research methodology will be discussed.

EPSY 6358
Introduction to Research [3-0]
as scheduled

This course will provide an overview of research methods used in educational settings. Both quantitative and qualitative methods will be covered. Ethical and legal issues associated with conducting research will be addressed. Students will demonstrate their knowledge and skills by completing a project.

EPSY 6360 [3-0]
Professional, Ethical and Legal Issues In Counseling
as scheduled

This course focuses on the ethics codes of professional organizations (APA and ACA) with a major emphasis on professional standards, ethical principles and legal considerations in the Counseling profession.

EPSY 6361
Organization and Management of Guidance and Counseling Programs [3-0]
as scheduled

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]
as scheduled

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]
as scheduled

The purpose of the course is to engage in an in-depth study of selected theories of individual and group counseling. Focus will be on understanding the importance of theory in counseling, building a theoretical knowledge base for counseling, and critical examination of theories most appropriate for individual and group counseling.

Prerequisites: EPSY 6361 and EPSY 6362.

EPSY 6364
Counseling Methods and Techniques [3-0]
as scheduled

This course provides professionals the opportunity to acquire knowledge in basic assessment and intervention methods/techniques. The focus is on counseling individual life management problems, issues and concerns. Assessment and intervention techniques will address problem management, problem solving and decision making in the personal, social, educational and career/vocational areas. Demonstrated competence in the application of these methods and techniques requires field-based experiences in individual counseling with clients. Ethical and legal issues related to counseling are introduced.

Prerequisites: EPSY 6361, EPSY 6362, EPSY 6363 and EPSY 6390.

EPSY 6365
Group Counseling Techniques [3-0]
as scheduled

The purpose of this course is to assist professionals to develop competency in group leadership including knowledge of group processes and methods for leading groups as well as leadership/facilitative skills and techniques with application to developmental and remedial counseling groups, consulting groups, life-skills and human relations training groups, developmental guidance groups and decision making/problem solving task groups.

Prerequisites: EPSY 6361, EPSY, 6362, EPSY 6363, EPSY 6364 and clear admission to candidacy.

EPSY 6366

**Lifestyle and Career Development [3-0]
as scheduled**

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]
as scheduled**

This course examines the conceptual and practical bases for individual and group assessment, formal and informal assessment procedures, interpretation of assessment data, and preparation of reports for consulting with students, parents, teachers and other professional personnel.

Prerequisite: EPSY 6370 or EPSY 6350.

**EPSY 6368
Counseling Practicum I [3-0]
as scheduled**

A competency-based practicum. Students will engage in counseling and guidance planning through practical experiences in the laboratory and in the public schools. Seminars for discussion and critiquing by the student will be the theme of class sessions. Students will be required to recognize and identify counseling techniques and philosophies used in this practicum. Admission to the course is dependent on admission to counselor education candidacy. The course must be taken within the last nine hours of the program. Number of clock hours is aligned with State and National Standards.

Prerequisites: EPSY 6360, EPSY 6361, EPSY 6362, EPSY 6363, EPSY 6364 and EPSY 6365.

**EPSY 6369
Counseling Practicum II [3-0]
as scheduled**

This course is a 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. This course must be taken within the last six hours of the program. Number of clock hours is aligned with State and National Standards.

Prerequisites: EPSY 6361, EPSY 6362, EPSY 6363, EPSY 6364, EPSY 6365 and EPSY 6368.

**EPSY 6370
Educational and Psychological Measurement [3-0]
as scheduled**

The content of this course will include scaling; variance; scores derived through linear and nonlinear transformations; traditional item analysis and introduction to latent trait models; reliability and true score theories; partitioning total variance into true and measurement error variance into its different sources; validity, content, predictive, concurrent and construct; models of unbiased assessment. These topics will be related to the construction and interpretation of norm and criterion reference measures, teacher-made test and

systematic observational scales.

**EPSY 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 [3-0]
Introduction to Cognitive and Achievement Assessment
as scheduled**

The content of this course will include the basic introduction of administering, scoring and interpreting cognitive and achievement assessment instruments. Practica required.

Prerequisite: EPSY 6370 or consent of instructor.

**EPSY 6381 [3-0]
Advanced Cognitive and
Achievement Assessment
as scheduled**

The content of this course will include advanced instruction in the administering, scoring, interpreting and report writing of cognitive, achievement, and other developmental measures. Practica required.

Prerequisite: EPSY 6380.

**EPSY 6382 [3-0]
Bilingual and Multicultural Assessment
as scheduled**

In this course students will be presented with the psychometric theories, issues and strategies to consider in assessing children and youth from various cultural, ethnic and linguistic backgrounds. Students will have an opportunity to use a variety of assessment techniques in English and Spanish. Practica required.

Prerequisites: For educational diagnostician students EPSY 6380; school psychology students EPSY 6380 and 6381.

**EPSY 6383 [3-0]
Personality Assessment of Childhood
as scheduled**

The content of this course will include administration, scoring and interpretation of self-report inventories, projective drawings, behavioral observations, clinical interviews and introduction to projective techniques for intervention. Comprehensive report writing is included. Practica required.

Prerequisites: EPSY 6370, EPY 6380, EPSY 6381, EPSY 6301 and consent of instructor.

**EPSY 6385 [3-0]
Autism Spectrum: Assessment and Program Planning
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 6389 [3-0]
Culturally and Linguistically Diverse Exceptional Learner II: Characteristics
as scheduled

This course will cover the culturally and linguistically diverse exceptional (CLDE) learner with low incidence and high incidence disabilities. Emphasis will be given to academic, linguistic and cognitive characteristics.

EPSY 6390 [3-0]
Human Growth and Development
as scheduled

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 [3-0]
Counseling the Culturally Diverse
as scheduled

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 [3-0]
Counseling Practicum III
as scheduled

This course is field-based and designed to provide continued opportunity for practice in counseling to meet licensure requirements. Individualized supervision focuses on developing advanced counseling skills while working with a variety of populations. One –hundred-fifty clock hours of direct and indirect contact is required (maximum of 80 direct and maximum of 70 indirect). Prerequisites: EPSY 6368 and EPSY 6369.

EPSY 6393 [3-0]
Marriage and Family Counseling
as scheduled

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 6394 [3-0]
Advanced Group Counseling
as scheduled

This course examines the theories and the in-depth dimensions of group counseling. It focuses on the therapeutic factors in and limits of group intervention, development of group facilitation skills, designing groups to work with specific populations or issues, and awareness of how race ethnicity and culture influence group participation and facilitation.

EPSY 6395 [3-0]
Advanced Studies in Mental Disorders
as scheduled

This course will survey historical and cross-cultural approaches to mental and emotional disorders. There will be an emphasis on how our understanding of psychopathology is a growing body of knowledge, which reflects the values, assumptions, and scientific advancement of the particular historical and cultural context. Students will also be introduced to psychopharmacology and develop and understanding of the DSM for the purposes of diagnosing and developing treatment plans for clients specifically seeking outpatient therapy from the Licensed Professional Counselor.

EPSY 6396 [3-0]
Advanced Methods and Techniques
as scheduled

An advanced course in the methods and techniques of the counseling process, focused on developing skills within the theoretical frameworks of psychodynamic, humanistic, behavioral and cognitive-behavioral, and contextual and constructivist approaches. Relationship skills and intervention skills within the theories will be discussed and demonstrated In terms of counseling goals, central concepts and techniques and diversity applications. A major focus will be developing skills to critically compare various theoretical positions and skills.

EPSY 7160
Internship
as scheduled

The content of this course will include 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 7161
Internship III
as scheduled

The content of this course will include 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 7302**Practicum in Educational Diagnostician I
as scheduled**

This course is the first of two field-based courses designed to give students the opportunity to engage in the full psycho educational evaluation process through practical university and field-based experiences. Course must be taken within the last year of the program.

Prerequisite: EPSY 6381.

EPSY 7303**Practicum in Educational Diagnostician II
as scheduled**

This course is the second of two field-based courses designed to give students the opportunity to engage in the full psycho educational evaluation process through practical university and field-based experiences. Course must be taken within the last year of the program.

Prerequisite: EPSY 7302.

EPSY 7308**Child and Adolescent Therapy Practicum
as scheduled**

This course provides students with experience providing psychological intervention services to young children and adolescents. Students will receive instruction and supervision in a clinical setting.

Prerequisite: EPSY 6310, 6301, 7352 and consent of the instructor.

EPSY 7310**Advanced School Psychology Research Project [3-0]
as scheduled**

This is a student non-thesis option for fulfillment of the requirements of the School Psychology Program. The student will complete a research project under the direction of a graduate faculty member.

Prerequisite: EPSY 6350, 6358, and 6370.

EPSY 7350**Internship I
as scheduled**

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
as scheduled**

The content of this course will include a 1,000 clock-hour advanced field experience in schools and agencies working in the role of a school psychologist. This field experience will include psychological and educational assessment, development of intervention programs, professional ethics and consultation.

Prerequisite: Consent of instructor.

EPSY 7352**Psychotherapy for Children and Adolescents [3-0]
as scheduled**

This course focuses on Psychotherapeutic interventions for children and adolescents. Students will receive instruction and supervision in a clinical setting.

Prerequisites: PSY 6310, 6301, 7352 and consent of the instructor.

EPSY 7353**Psychodynamic Play Therapy [3-0]
as scheduled**

This course includes the psychodynamic methods of play therapy and related family systems interventions. Practices required.

Prerequisites: EPSY 6310, EPSY 6301, EPSY 7352, and consent of the instructor. This course may be repeated once for credit.

EPSY 7602**Applied Research Project [3-0]
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, Special Education and School Psychology Programs.

Finance

FINA 6303**Introduction to Finance [3-0]
as scheduled**

This course introduces fundamental concepts of financial tools and analysis for making effective managerial decisions. Topics include the role of the financial manager in the organization, decisions affecting the internal management of the firm, financial statement analysis, and operational planning and budgeting.

Prerequisite: Admission to the MBA Program.

FINA 6340**Financial Administration [3-0]
as scheduled**

This course covers the management of the flow of funds in the firm. Topics include the optimal utilization of funds, and the behavior of financial institutions and markets.

Prerequisite: FINA 6303 or FINA 3383 or equivalent

**FINA 6341 Financial Management Seminar [3-0]
as scheduled**

This course covers the responsibilities of the financial manager as these relate to working capital management, capital budgeting and the determinates of the firm's cost of capital.

Prerequisite: Twelve hours of graduate business courses.

FINA 6342
Financial Topics Seminar [3-0]
as scheduled

This course is a survey of selected topics in finance. This course may be repeated for credit.
 Prerequisite: Twelve hours of graduate business courses.

FINA 8322
Scholarship Seminar [3-0]
as scheduled

Doctoral students will have a one to one contact with a faculty member. The purpose of this seminar is to build up the student's paper development and writing skills toward producing a premier journal article.

FINA 8341
Seminar in Finance Topics [3-0]
as scheduled

Selected topics in finance as they relate to current issues. Various contemporary subjects will be developed by the instructor of this course. Course may be repeated for credit with different topics.

FINA 8350
Math for Finance [3-0]
as scheduled

This course introduces the mathematical concepts necessary for pursuing microeconomic theory at the Ph.D. level. Theory and application of linear algebra and constrained optimization.

FINA 8360
Theory of Finance [3-0]
as scheduled

This course entails a rigorous development of the fundamental theories within the field of finance. Topics include utility theory, decision-making under uncertainty, information and capital market efficiency, agency theory and dividend policy.

FINA 8365
Theory of Investments [3-0]
as scheduled

This course covers issues in investment analysis. The first part of the class is devoted to asset pricing theories beginning with Markowitz Portfolio Analysis and moving on to the Capital Asset Pricing Model, the Arbitrage Pricing Theory and the Fama-French Three-Factor Model. The course then delves into current issues related to investment analysis focusing on market efficiency and over-reaction under-reaction phenomena. The last part of the course explores derivative pricing theories.

FINA 8370
International Finance Management [3-0]
as scheduled

This course covers international monetary environments and institutions; determinants of foreign exchange rates and risk management; foreign investment analysis.

FINA 8375
Corporate Finance [3-0]
as scheduled

Financial theory applied to capital structure; investment decisions; corporate valuation; and corporate financial policies.

FINA 8380
Financial Markets and Institutions [3-0]
as scheduled

This course will provide students with an understanding of the mechanisms of various financial markets. It aims to develop a critical awareness of the theoretical and practical problems associated with regulating financial markets. The course will investigate how the market structures potentially cause and mitigate financial risk to market participants and end users. Also financial scandals and crises will be reviewed.

French

FREN 5321
French and Francophone Literature [3-0]
as scheduled

This course will study topics and masterpieces in French and/or Francophone (French-speaking countries) literature. The course may be taken three times as the topic varies.
 Prerequisites: Graduate standing and a minimum of 12 advanced hours in French.

FREN 6321
French Critical Theory [3-0]
as scheduled

This course Introduces students to the "French Theory", school of literary criticism and analytic devices of texts. This course may be taken one time.
 Prerequisites: Graduate standing and a minimum of 12 hours of advanced courses in French.

FREN 6322
Literature Courses for Advanced Placement Preparation [3-0]
as scheduled

This course will follow the AP program requirement. It consists of graduate level literature courses. It is offered to school teachers who prepare their students for the AP exam. This course may be repeated up to two times.
 Prerequisites: Graduate standing and a minimum of 12 hours of advanced courses in French.

Geology

GEOL 5301

Geology and Geography as scheduled

Geology and Geography is an integrated course focusing on physical geology and physical geography. It explores the diverse processes that continuously shape our planet. Develops an understanding of earth materials, how the earth works, the causes of natural disasters, the importance of geologic time, the fundamentals of geography. Topics include minerals, rocks, volcanoes, radioactive dating, earthquakes, plate tectonics, rivers and floods, groundwater resources, deserts, glaciers, the nature of maps, map projections, global positioning system, geographic information systems and fundamental aspects of remote sensing. Prerequisites: Consent of instructor.

GEOL 6301

Meteorology and Oceanography as scheduled

This is a course in the behavior of the atmosphere and ocean, and the linkages between them. The first part of the course will discuss the physics behind the behavior of the atmosphere and how the resulting differences in temperature and pressure give rise to the global wind and weather patterns observed. The second part will cover how wind drives ocean current circulation and waves, the origin of astronomical tides and how the physical and geological conditions in the ocean influence life. Special attention will be paid to the role of the ocean and atmosphere in global change.

GEOL 6410

Geoscience for Teachers as scheduled

This course is specifically designed to provide a broad intensive overview of the GMO (geology, meteorology and oceanography) subject areas for practicing teachers. It consists of a series of class and laboratory-based modules that will enable teachers to effectively implement GMO sections into their existing curriculum. This course follows an inquiry-based approach based on understanding and using the scientific method, data collection and analysis as appropriate for each of the three modules. Meteorology introduces the teachers to atmosphere, weather and climate systems; oceanography covers global oceans, coastal systems and the effects of human impact; while the geology module provides overviews of the history of geology, basic rocks and minerals, fossils, geomorphology, plate tectonics and geologic hazards such as earthquakes and volcanoes.

Global Security Studies and Leadership

GSSL 5300

Global Security as scheduled [3-0]

Designed for the graduate students of Global Security Studies and Leadership as a comprehensive introduction of the politics of global security, this course explores the evolution of security concepts worldwide, addresses a wide range of major international issues and global implications, as well as identifies and debates about possible measures to address and prevent these problems. By the end of the semester, students are expected to acquire an understanding of how security threats are defined and addressed; examine the historical contributions of globalization to security issues; appreciate the ethical, political, and social dilemmas of security policies; articulate informed opinions about the costs and benefits of global security; and critically analyze the current policy on global security and the nature of global developments as well.

GSSL 5305

Open Source Research as scheduled [3-0]

This course provides students with the knowledge and skills needed to conduct research using publicly available information appearing in print or electronic form including the Internet, radio, television, newspapers, journals, commercial databases, and videos, graphics, and specialized publications, citizens media, and social media. Students learn advanced Internet research strategies, methods, and approaches for using foreign source research. Students develop fluency in available resources for open source research, including networks, commercial and government databases, academic resources, translation services, and analytical software and research tools.

GSSL 5320

Research and Analysis as scheduled [3-0]

This course provides basic knowledge and skills needed to undertake research-based problem solving. It is an introduction to empirical research and analysis as used in behavioral, intelligence, and security settings. In this class, how to pose research questions, apply a theoretical framework, identify and use valid and reliable measures, and gather data, emphasizing the preliminary process of research design will be discussed. Students will also consider ethical dilemmas and conflicts of interest in research.

GSSL 5330

Practicum in Global Security Studies and Leadership as scheduled [3-0]

This course integrates the broad and specialty knowledge covered in the interdisciplinary courses and the preceding core courses by working in teams to an applied case problem involving a current security issue. The course culminates

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in an event attended by invited guests from the faculty administration and working professionals, at which each group will present case outcomes. Graduate students will be required to attend at least four GSSL speaking events and submit analyses of each presentation using method and theory specific to the class.

Prerequisite: GSSL 5320

GSSL 5397 [3-0]
Internship in Global Security Studies and Leadership as scheduled

The practical national security experience through an arranged internship in a government agency for one semester. The student will work with a participating employer under the supervision of a graduate faculty member. Periodic seminars and supervisor-intern consultations will be held with a required final administrative report

Prerequisite: Consent of instructor and faculty advisor.

GSSL 5398 [3-0]
Independent Study in Global Security Studies and Leadership as scheduled

Individualized study and research in a substantive area are not normally covered within standard courses. The student will study under the direct supervision of a faculty member. Research projects or advanced readings will vary according to student interest and faculty availability.

Prerequisite: Consent of instructor.

GSSL 5399 [3-0]
Special Topics in Global Security Studies and Leadership as scheduled

This course covers special topics in graduate level security studies that are not taught elsewhere in the department. May be repeated for credit when topic varies.

Prerequisite: Consent of instructor and faculty advisor.

History

HIST 5343 [3-0]
Directed Readings in U.S. History as scheduled

A directed study of selected topics in U.S. history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5345 [3-0]
Directed Readings in Latin American History as scheduled

A directed study of selected topics in Latin American history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5363 [3-0]
Directed Readings in Borderlands History as scheduled

A directed study of selected topics in Borderlands history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5373 [3-0]
Directed Readings in Comparative History as scheduled

A directed study of selected topics treated in comparative or transnational perspective, including such topics as development and underdevelopment, regional interaction, the status of women, cultural exchanges, immigration and social change. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5383 [3-0]
Directed Readings in European History as scheduled

A directed study of selected topics in European history. Topics are varied according to availability of faculty and student interest. Course can be repeated as topic changes.

HIST 5395 [3-0]
Directed Studies as scheduled

A directed study of selected topics tailored to specific needs of students who are either preparing for comprehensive examinations or working on thesis development. Topics are varied according to availability of faculty and student interest. Course can be repeated once as topic changes.

HIST 6300 [3-0]
Historiography and Historical Method 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 [3-0]
Seminar and Problems Study in Eras in American History to 1860 as scheduled

A survey and critique of the bibliography and problems of various eras in American history before the Civil War. May be repeated for credit when topic varies.

HIST 6302 [3-0]
Research Practicum in History as scheduled

This course provides students with practical research experience under the supervision of a graduate faculty member. Faculty will work with students to develop bibliographies, gather and organize data, review primary sources, and check citations.

HIST 6303 [3-0]
Seminar and Problems Study in Eras in American History Since 1860
 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 [3-0]
Studies in Texas and Southwestern History
 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 [3-0]
Seminar and Problems Study in the History of South America
 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 [3-0]
Seminar and Problems Study in the History of Middle America
 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 [3-0]
Seminar and Problems in Modern European History
 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 [3-0]
Studies in Mexican and American Heritages
 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 8300
The Academic Experience [3-0]
 as scheduled

Course intended to increase understanding of the academic career, including dissertation preparation, research strategies tenure and promotion, and administrative positions.

INTB 8340
Seminar in International Financial Management [3-0]
 as scheduled

The study of the theoretical and practical frameworks for the valuation of the firm with international operations. This framework highlights the multicurrency dimensions of firms with foreign assets and liabilities and recognizes that foreign currency cash flows have unique characteristics of risk and return. The underlying assumption of such a course is that financial management concepts need to recognize the additional variables and constraints created by exchange rates; possible imperfect money, capital and exchange markets; host government policies toward the operation of foreign firms; and the manner by which the accounting profession measures results.

INTB 8350
Seminar in International Economics [3-0]
 as scheduled

The study of the pure theory of trade, exchange rate determination, trade policy and trade agreements, balance of payments problems, and international money and payment systems.

INTB 8360
Seminar in Regional Business [3-0]
 as scheduled

Topical courses focusing on specific geographic regions (e.g., Latin America, Asia, Europe, North America, Mid-East, North Africa, Sub-Saharan Africa, Mexico). Each seminar will analyze economic, political and cultural aspects of each region with particular emphasis on the international dimensions. The seminar may be repeated for credit when a different region is covered.

INTB 8369
Seminar in International Business Issues [3-0]
 as scheduled

A research seminar course focuses on a wide range of current international business issues, such as border business development, free trade zones, international trade financing, international patent and trademark protection. Seminar topics vary with the interests of the profession, doctoral students and doctoral faculty. Course may be repeated for credit with different topics.

INTB 8370

Seminar in International Marketing Strategy [3-0] as scheduled

Discusses international marketing concepts and strategies with an emphasis on the influence of the market plan. Issues dealing with standardization versus adaptation strategies, counterfeiting and protection of industrial property, and distribution alliances are analyzed.

INTB 8399

International Business Internship [3-0] as scheduled

This is a credit course that may 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 8322

Scholarship Seminar [3-0] as scheduled

Doctoral students will have a one to one contact with a faculty member. The purpose of this seminar is to build up the student's paper development and writing skills toward producing a premier journal article.

Kinesiology

KIN 5313

Workshop in Kinesiology [3-0] as scheduled

This course is designed to provide in-depth experiences for the prospective teacher, coach and recreation leader in the development of both current theories and practices in presenting selected areas of kinesiology such as aquatics, dance, gymnastics and/or sports. The course may be repeated for credit, up to six hours, when the topic is different.

Prerequisite: Twelve hours of graduate Kinesiology and permission of the department chair.

KIN 5351

Kinesiology Curriculum for the Handicapped Student [3-0] as scheduled

The selection and planning of kinesiology for students whose activity must be adapted due to demands imposed by gravity, trauma, injury, congenital defect, illness or disease. Laboratory work with students will be scheduled. Prerequisite: Permission of the department chair.

KIN 5357

Health Seminar [3-0] as scheduled

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] as scheduled

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] as scheduled

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] as scheduled

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] as scheduled

Background of kinesiology from biological, anatomical and physiological aspects.

KIN 6305

Curriculum Construction in Kinesiology [3-0] as scheduled

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] as scheduled

Principles, terminology and standards for planning construction, use and maintenance of facilities.

KIN 6307
Psychology of Motor Learning [3-0]
as scheduled

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 [3-0]
as scheduled

Extensive readings and discussion of selected topics in the field.

KIN 6310 [3-0]
Organization and Administration of Sport Programs
as scheduled

The organization and administration of major and minor sport programs including budgeting, staffing, equipment and public relations.

KIN 6311
Legal Issues in Sport [3-0]
as scheduled

The application of legal issues in the sport industry with primary concentration on tort liability for sport administrators and teachers/coaches, gender issues, and contract law.

KIN 6312 [3-0]
Governing Agencies for Sport
as scheduled

An in-depth study of governance agencies concerned with interscholastic, intercollegiate, amateur, international and professional organizations.

KIN 6313
Ethics in Sport [3-0]
as scheduled

A study of ethical issues in sport related to the player, coach, parent, officials and administration associated with sport/athletic organizations.

KIN 6319
Internship in Sport [3-0]
as scheduled

The student is to perform an internship under the supervision of a mentor with an organization and a university supervisor. A minimum of 120 contact hours is required.

KIN 6320
Independent Research [3-0]
as scheduled

Individual investigation of a problem in kinesiology that involves one of the techniques of research. Students will work under a designated faculty member and must have their research approved prior to registering. Prerequisite: Permission of the department chair.

KIN 6321
Kinesiology Internship [3-0]
as scheduled

This is an on-site internship in a public school setting focusing on the psychomotor, cognitive, and effective development of children. The student will select a site (elementary, middle, or secondary public school) and secure employment. Repeat for credit once. Prerequisite: 12 graduate hours (C or better) in the Graduate Teacher Education and Certification (G-TEC).

KIN 6330
Issues in Adapted Physical Activity [3-0]
as scheduled

Analysis and evaluation of contemporary issues, trends, and research findings pertinent to adapted physical activity for students with disabilities.

KIN 6331 [3-0]
Including Students with Disabilities
in Regular Physical Education
as scheduled

Analysis concepts related to inclusion and utilizes the ecological philosophy to discuss the methods and strategies in implementing an inclusive physical education program.

KIN 6332
Special Techniques of Motor Assessment
for Individuals with Disabilities [3-0]
as scheduled

Provides students with information about instruments to assess students with disabilities in adapted physical education settings.

KIN 6333 [3-0]
Adapted Sports and Activities for
Individuals with Disabilities
as scheduled

Explores the concerns and benefits of exercise participation in special populations.

KIN 6335 [3-0]
Determinants and Perspectives of Health and Illness
as scheduled

This course considers factors that determine health and illness in populations. An understanding of social and behavioral issues which influence health status and care in the United States will be studied. Opportunities to learn about social and psychological aspects of disease, health care, delivery systems, political economy of health and illness

and its impact and consequences will be presented. Debates and contrasting perspectives which characterize the field of medical sociology-health sociology-health promotion along with current relevant topics comprise the course. Opportunity is provided for the graduate student to apply critical thinking strategies for understanding, evaluating and analyzing determinants and perspectives that affect health and illness.

Prerequisite: Graduate status.

KIN 6340 [3-0]
Advanced Biomechanics
as scheduled

Introduction to research and application in biomechanics which includes the mechanical components of human movement and the analysis of movement problem. Emphasis is on quantitative techniques of sport and exercise activities analysis. Other technologies and bibliographic research methods are covered.

Prerequisites: BIOL 2403, BIOL 2404, KIN 3345, and KIN 3365 or equivalent courses. Admission to department graduate program for majors and to the University graduate program for non-majors.

KIN 6350 [3-0]
Sport and Exercise Psychology
as scheduled

This course examines sport and exercise behavior with a life-span perspective. Factors relating to exercise and sport participation and adherence within each developmental stage will be studied. Relevant theoretical models and empirical research will be discussed to understand sport and exercise behavior correlates and determinants.

Prerequisites: Entrance into kinesiology graduate program.

KIN 7300 [3-0]
Thesis
Scheduled by chair.

KIN 7301 [3-0]
Thesis
Scheduled by chair.

Course descriptions are available at
<http://www.utcoursesonline.org/programs/programinfo/kino/Index.html>



Masters of Accountancy

MACC 6310 [3-0]
Auditing
as scheduled

A study of selected auditing standards with an emphasis on new topics in auditing. Included are such topics as statistical sampling, auditing effects of EDP, internal auditing functions, operational auditing and work paper techniques.

Prerequisite: ACC 3327 or equivalent.

MACC 6320 [3-0]
Tax Topics
as scheduled

Current topics in the operation of the federal tax system are examined. Topics may include federal taxation of international transactions, reorganizations, consolidated tax returns, estates, gifts, trusts, and an introduction to tax planning.

Prerequisite: ACC 3323 or equivalent.

MACC 6330 [3-0]
Accounting Theory
as scheduled

An examination of accounting theories arising during the 20th century and their effect on the evolution of GAAP. New issues arising in accounting practice that create theoretical issues will be discussed.

Prerequisite: ACC 3322 or equivalent.

MACC 6333 [3-0]
Business Law for Accountants
as scheduled

An in-depth study of issues of business law relevant to the accounting profession including negotiable instruments, banking, secured transactions, creditor's rights and bankruptcy, forms of business organizations, corporate financing, corporate liability and investor protection. Ethical considerations and international considerations are included throughout the course.

Prerequisite: BLAW 3337 or equivalent.

MACC 6340 [3-0]
Managerial Accounting
as scheduled

A study of advanced cost and managerial topics with an overview of contemporary issues in management accounting.

Prerequisite: ACC 3320 or equivalent.

MACC 6350 [3-0]
Information Technology for Accounting & Control
as scheduled

An extensive examination of technology and audit tools such as statistical sampling, audit software, and data mining techniques as pertaining to auditing and an examination of a company's accounting and control systems.

Prerequisite: ACC 3326 or equivalent.

MACC 6360

Tax Research Methodology [3-0]**as scheduled**

A study of authoritative tax law sources, tax research methodology, and research documentation and reporting is combined with actual research using typical tax problems. Prerequisite: ACC 3323 or equivalent.

MACC 6370**Internal Auditing and Assurance Services [3-0]****as scheduled**

This course is designed to introduce students to principles, techniques, and standards of internal auditing, which extends beyond the traditional attestation of financial statements. The course emphasizes assessment of business risk, internal control systems, the role of internal auditing in risk management, and management auditing: compliance, operational, performance and value for money. Prerequisite: ACC 3327 or equivalent.

MACC 6380**Professional Ethics [3-0]****as scheduled**

The Ethics of Certified Public Accountants, Certified Management Accountants, Certified Internal Auditors, Certified Fraud Examiners as well as those of other professional associations are examined. Consideration is also given to how corporate ethical codes of conduct function in corporate governance and as a matter of law. Decision-making within the framework of professional standards is discussed.

Prerequisite: ACC 3327 and ACC 3322.

Manufacturing Engineering

MANE 6190**Engineering Project [0-1]****as scheduled**

Special construction projects, research activities or supervised engineering studies. May be repeated for credit. Prerequisite: Consent of instructor.

MANE 6290**Engineering Project [0-2]****as scheduled**

Special construction projects, research activities or supervised engineering studies. May be repeated for credit. Prerequisite: Consent of instructor.

MANE 6301**Introduction to Manufacturing Engineering I [3-0]****as scheduled**

This course provides material that is prerequisite to graduate level courses in Engineering Management and Manufacturing Engineering. It covers material that is introductory to industrial engineering statistics. Because this course contains prerequisite material, it cannot be included on a degree plan for credit to a MSE in Manufacturing Engineering or MS in Engineering Management. Prerequisite: Graduate student standing

MANE 6302**Introduction to Manufacturing Engineering II [3-0]****as scheduled**

This course provides material that is prerequisite to graduate level courses in Engineering Management and Manufacturing Engineering. It covers material that is introductory to industrial engineering statistics. Because this course contains prerequisite material, it cannot be included on a degree plan for credit to a MSE in Manufacturing Engineering or MS in Engineering Management.

Prerequisite: Graduate student standing

MANE 6303**Concepts in Engineering Analysis [3-0]****as scheduled**

Limits, derivatives and applications, integrals and applications, methods of integration, vectors, partial derivatives, ordinary differential equations and applications.

Prerequisite: Consent of instructor.

MANE 6304**Industrial Cost Analysis [3-0]****as scheduled**

This course provides a background in quantitative techniques in Engineering Management with emphasis on industrial cost analysis models and techniques. Financial models and methods are discussed with emphasis on capital budgeting and topics related to advanced engineering economics. Valuation and reporting methods are reviewed. Basic costing practices are discussed along with cost modeling and control methods.

Prerequisite: MANE 3337 or MANE 6302

MANE 6308**History of Manufacturing [3-0]****as scheduled**

This course provides the student with an introduction to the evolution of manufacturing and manufacturing systems, as well as a look into the possible future. The course involves extensive reading assignments, presentations and projects.

Prerequisite: Consent of instructor.

MANE 6311**Advanced Quality Control [3-0]****as scheduled**

Deming continuous improvements concepts, Q.C. 7-tools, basic problem solving procedures, control chart practice and applications, design of experiments and Taguchi methods. ISO 9000 and TQM will be introduced.

Prerequisite: MANE 3332.

MANE 6313**Design of Experiments [3-0]****as scheduled**

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 6314
Maintenance Systems [3-0]
as scheduled

The maintenance, repair, and remanufacture of products has not, until recently, been supported by a solid, scientific basis. In this course this deficiency is addressed and, via mathematical models and simulation, investigated.
 Prerequisite: Consent of instructor.

MANE 6315
Reliability Engineering [3-0]
as scheduled

System level reliability, redundancy, maintainability, availability analysis and modeling, life testing, acceleration, parametric, and non-parametric models.
 Prerequisite: MANE 3332.

MANE 6319
Quality Management Systems [3-0]
as scheduled

Introduces philosophies, tools and methodologies of TQM, quality systems (ISO 9000, ISO 14000, 6-sigma), bench marking, quality function deployment, Taguchi method, Failure Mode and Effect Analysis (FMEA) and management tools. Prerequisite: Consent of instructor.

MANE 6321
Robotics and Automation [3-0]
as scheduled

Application of industrial robots and their role in industrial systems. Relationships among product design process control, robot kinematics and flexible automation are covered.
 Prerequisite: MANE 3302 or equivalent.

MANE 6323
Advanced Computer-Aided Design [3-0]
as scheduled

Theory and applications of computer-aided design in engineering. Design of engineering parts using parametric solid modeling software. Automated drafting and dimensioning, geometric tolerancing.
 Prerequisite: MANE 3300 or equivalent.

MANE 6328
Dynamic Systems Modeling and Forecasting [3-0]
as scheduled

System identification using time series, Green's function and stability analysis, forecasting, multiple series and applications for on-line manufacturing process control.
 Prerequisite: MANE 3332.

MANE 6331
Advanced Manufacturing Planning and Control [3-0]
as scheduled

Forecasting, aggregate planning, inventory control, pull and push production systems, operations and project scheduling and recent advances in operations planning and control.
 Prerequisite: MANE 3364 or equivalent.

MANE 6340
Operations Research and Analysis [3-0]
as scheduled

Concepts in mathematical modeling, stochastic processes, queuing theory, linear programming, integer programming, dynamic programming, non-linear programming, and inventory models.
 Prerequisite: Consent of instructor.

MANE 6341
Advanced Operations Research and Analysis [3-0]
as scheduled

Concepts in mathematical modeling, stochastic processes, queuing theory, dynamic programming and non-linear programming.
 Prerequisite: MANE 6340.

MANE 6342
Engineering Decision Support Systems [3-0]
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 6343
Queueing Models for Manufacturing Systems [3-0]
as scheduled

This is a course on the application of stochastic models and Queueing theory in design and control of manufacturing systems. We will start from review of elementary probability theory; we will then cover conditional expectation; the Poisson process; renewal theory; Markov chains; and queueing theory. Emphasis will be given to Queueing models and their application in manufacturing systems, transportation and stocking systems, and other types of service delivery systems. Student will be able to apply Queueing models in the design of these systems, and other types of service delivery systems. Student will be able to apply Queueing models in the design of these systems in terms of layout, capacities and control.
 Prerequisite: MANE 2332

MANE 6345
Engineering Management [3-0]
as scheduled

Fundamental principles of planning, estimating, budgeting, scheduling, implementation, evaluation and controlling engineering and research projects. Common engineering management concerns such as labor scheduling, human resources management and related governmental compliance also explored. Prerequisite: Consent of instructor.

MANE 6346
Polymer Engineering [3-0]
as scheduled

Study of engineering properties of polymer materials and selection of polymers for use in engineering applications. Manufacturing properties of polymer materials and their effects on manufacturing processes.
 Prerequisite: MANE 3364 or equivalent.

MANE 6347
Facilities Layout [3-0]
as scheduled

An analytical approach to the planning and design of manufacturing facilities and material handling systems.
 Prerequisite: Consent of instructor.

MANE 6348
Systems Engineering [3-0]
as scheduled

Systems Engineering covers translation of customer needs into product requirements, management of the interface, and interaction of systems and subsystems. It also includes coordination of design reviews, analysis of alternatives, consideration of component testing and verification, within cost and schedule constraints. Additional issues include the interface with the human user, system reliability, logistic support, and system safety. This course discusses tools that help the Systems Engineer to complete complex projects with success.
 Prerequisite: Consent of the instructor.

MANE 6349
Advanced Work Science [3-0]
as scheduled

Design methods for work and work systems; scientific and engineering basis of work and its analysis.
 Prerequisite: Consent of instructor.

MANE 6350
Flexible Integrated Manufacturing [3-0]
as scheduled

Application of industrial programmable logic controllers, machine vision system, selection of tools for robot end effector, sensor technology, machine-human systems such as expert system and flexible automation system design.
 Prerequisite: MANE 3302 or MANE 6401.

MANE 6351
Intelligent Decision Systems [3-0]
as scheduled

This course provides an introduction to the methods and applications of the methods which form the basis of Intelligent Decision making via the employment of techniques from Artificial Intelligence (e.g., expert systems, neural networks, genetic algorithms, and self-organizing systems) and Operations Research (e.g., ontogenic neural networks, cluster analysis, discriminant analysis, and genetic search). Recent advances and applications are covered.
 Prerequisite: Consent of instructor.

MANE 6352
Simulation of Manufacturing Systems [3-0]
as scheduled

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 6353
Optimizing Factory Performance [3-0]
as scheduled

An introduction to the systems which comprise production lines, supply chains, and business processes and coverage of the models and methods employed to reduce unnecessary complexity and excessive variability within such systems. Introduction to new, improved performance metrics (e.g., LACTE) as employed in the pursuit of fast cycle time and significant, sustainable improvement. Both mathematical modeling and discrete simulation are employed in the analysis.
 Prerequisite: Consent of instructor.

MANE 6354
Advanced Engineering Economy [3-0]
as scheduled

Advanced techniques of engineering economic analysis; evaluation of alternative capital investments considering income taxes, depreciation and inflation; discounted cash flow analysis of competing projects, break-even analysis and determination of rate of return on investment, risk and uncertainty in engineering analysis.
 Prerequisite: MANE 3337.

MANE 6357
Ergonomics [3-0]
as scheduled

Functional anatomy and physiology of musculo-skeletal system and their applications in work design. Work physiology, manual materials handling, hand tools, and repetitive motions.
 Prerequisite: Consent of instructor.

MANE 6364
Advanced Manufacturing Processes [3-0]
as scheduled

The objective of this course is to obtain an understanding of some of the manufacturing processes used in industry today and to become familiar with some of the recent advances that have been made. This course focuses on specific manufacturing processes including heat treatment, metal forming, metal cutting, non-traditional processes, rapid prototyping and electronics manufacturing. The physical principles underlying the manufacturing processes are discussed and analyses of the process are conducted.
 Prerequisite: MANE 3364 or consent of the instructor.

MANE 6365
Tool Design and Analysis [3-0]
as scheduled
 Fundamentals of different areas of tools used in manufacturing. Tool making, tool materials, cutting tools, locating and clamping, jigs and fixtures. Design of fixtures for numerical control machines and modular fixturing.
 Prerequisite: MANE 6323.

MANE 6368
Logistics Engineering [3-0]
as scheduled
 Analysis of integration of support functions in the development, operations and maintenance of complex engine systems.
 Prerequisite: Consent of instructor.

MANE 6369
Mold Design and Analysis [3-0]
as scheduled
 Design of injection molding molds, mold components and design of parts for effective injection molding. Analysis of mold filling, fluid flow, mold temperature, residual stresses and other factors that affect the quality of mold.
 Prerequisite: MANE 6323.

MANE 6372
Advanced Engineering Analysis [3-0]
as scheduled
 Use of mathematical techniques to model and analyze problems encountered in engineering. Topics include linear algebra, ordinary differential equations, numerical methods and optimization techniques.
 Prerequisite: MANE 6303 or consent of instructor.

MANE 6375
Human Factors [3-0]
as scheduled
 Methods of measurement of human performance, psychological and physiological background of human information processing, principles and techniques of display and information system design, human error and reliability.
 Prerequisite: Consent of instructor.

MANE 6380
Engineering Project Management [3-0]
as scheduled
 Planning, scheduling and control of engineering projects, network models, CPM, PERT, resource allocation and time-cost tradeoff.
 Prerequisite: Consent of instructor.

MANE 6383
Analysis of Polymer Systems [3-0]
as scheduled
 This course is intended for manufacturing engineers requiring an introduction to the experimental chemistry of plastics with experimental and measurement techniques and the interpretation and representation of the results. The operation principles of various analytical equipment and

applications are discussed.
 Prerequisite: MECE 2440 and MANE 3364

MANE 6384
Polymer Structures, Properties, and Applications [3-0]
as scheduled
 This is an intermediate to advanced course in the relationship between polymer structure, properties, and applications that are of importance to manufacturing engineers working in the various manufacturing environment from automobile to aerospace industry. The difference in properties of various plastics and their structure is discussed.
 Prerequisite: MECE 2440 and MANE 3364

MANE 6385
Plastics Product Design and Engineering [3-0]
as scheduled
 This is an intermediate course in the plastics product design for injection molding process that is widely used to make from consumer product to aerospace application. The design principles and use of plastics to achieve competitive design of plastic parts is discussed.
 Prerequisite: MECE 2440 and MANE 3364

MANE 6390
Engineering Project [0-3]
as scheduled
 Special construction projects, research activities or supervised engineering studies. May be repeated for credit.
 Prerequisite: Consent of instructor.

MANE 6399
Topics in Manufacturing Engineering [3-0]
as scheduled
 Topics selected from current issues of concern in manufacturing industries. May be repeated for credit when topics change.
 Prerequisite: Consent of instructor.

MANE 6401
Concepts in Manufacturing [3-1]
as scheduled
 Manufacturing processes including metal cutting, nontraditional machining, force analysis, casting, deformation and joining processes, plastics, composites, manufacturing of ceramics and electronics devices, numerical control programming and application of programmable logic controller.
 Prerequisite: Consent of instructor.

MANE 7300
Thesis I
 First part of a two course sequence. Prerequisite: Graduate standing and consent of thesis advisor

MANE 7301
Thesis II
 Second part of a two course sequence.
 Prerequisite: MANE 7300

Marketing

MARK 6301
Foundations of Marketing [3-0]
as scheduled

This course provides discussion about a range of topics related to the marketing field, its functions and institutional structure at the macro level, as well as an analysis of marketing strategies and policies at the micro level. In addition, it includes issues related to the psychological, social and cultural factors influencing marketing decisions at the business and consumer level.

MARK 6331
Market Research Methods [3-0]
as scheduled

The importance of market research to decision making and accepted research methods, techniques and processes required for business managers to effectively conduct, evaluate, interpret and report market research are examined. Prerequisite: QUMT 6303 or equivalent.

MARK 6370
Marketing Policy and Management [3-0]
as scheduled

A study of marketing policy and decision-making based upon a consumer orientation; innovation and creative adaptation to change; cultural implication of marketing action; and the role of theory in marketing. Prerequisite: INTB 6304 or MARK 3371.

MARK 6371
Marketing Seminar [3-0]
as scheduled

A study of historical and current thought in marketing theory and practice. This course has variable content and course may be repeated for credit.

MARK 6373
Consumer Behavior [3-0]
as scheduled

The consumption process is key to understanding motivation, perception and decision making of consumers around the world. This course examines psychological, cultural, social and contextual influences on the consumption process and equips students with tools useful for increasing customer satisfaction.

MARK 6374
E-Commerce: Doing Business in the Digital World [3-0]
as scheduled

This course provides students with an introduction to the concepts of e-business as an integrated component of a firm's marketing strategy. It includes discussion of a range of topics as well as concepts of e-business sites, design and promotion to complete comprehensive marketing strategies for today's firm. Prerequisite: MARK 6370.

MARK 6375
Business Ethics [3-0]
as scheduled

This multidisciplinary course in the area of business is designed to: 1) introduce the student to ethics examination on the basis of a scientific (in the analysis) and managerial (in the decision-making) approach to individual and organizational problems involving ethics; 2) review key ethical concepts and frameworks for the study of morality normative ethics justice and economic distribution, the nature of the business and the corporations, ethical issues in the workplace and the moral choices facing employees, consumers and the environment; 3) examine key ethical problems in business of our time, such as the current mortgage and financial crisis, fraud in online and offline commerce, and emerging problems in international management and cross-cultural marketing.

MARK 6376
Competing through Service [3-0]
as scheduled

This course focuses on the vital role services play in the economy and its future. It shows how the advanced economies of the world are now dominated by service(s), and virtually all companies, including those traditionally known as manufacturers, view services as critical to retaining their consumers today and in the future and surviving in the marketplace. Students will be exposed to the state-of-the-art in services management and marketing.

MARK 8310
International Marketing Strategy [3-0]
as scheduled

The seminar will familiarize students with several recurring international business/marketing research issues with major emphasis on the development of strategic thought in marketing for students to appreciate how research streams have developed over the years. Central topics include the scope of international marketing strategy, the internationalization of specific marketing strategies (starting with the 4P's) and the interface between international marketing and other business functions.

MARK 8311
Global Consumer Behavior [3-0]
as scheduled

This seminar brings social science concepts, principles and theories to the study of factors that influence the acquisition, consumption and disposition of products, services and ideas with contributions from social and psychological sciences which inform the discussion of consumer behavior, which is global in nature.

MARK 8312
Marketing Theory [3-0]
as scheduled

This seminar is about rethinking marketing and the theories and debates that have dominated its discourses. Meaning of theory, criteria for assessing the strengths and weaknesses of theories in marketing, their positive and negative

contributions to society and humanity and the potentials and challenges to the futures of marketing will be explored.

MARK 8313
Qualitative Research Methods [3-0]
as scheduled

The seminar is designed to help familiarize students with the historical and theoretical foundations of qualitative research methods, to develop the ability to evaluate research employing qualitative methods and to acquire skills in conducting qualitative research in marketing and management settings. Issues related to the reliability and validity of qualitative research findings and qualitative analyses will be addressed.

MARK 8314
Markets and Globalization [3-0]
as scheduled

Through the study of recent theories of globalization, this seminar will explore the role of markets and consumers in this phenomenon, the effects of globalization on the structures of markets and the formation of new markets around the world and the effects of marketing on globalization streams for an historical understanding of the phenomenon as well as its contemporary nature.

MARK 8315
Global Services Marketing [3-0]
as scheduled

This seminar is designed to develop an in-depth understanding and knowledge of services marketing and relevant theories, to improve skills in reading the academic literature in services for thorough understanding, interpretation, critical evaluation and relevancy to the discipline and to improve abilities to develop and implement services-related research.

MARK 8320
Philosophy of Science Seminar [3-0]
as scheduled

This seminar will introduce academic research fundamentals to doctoral students and prepare them for the follow-up tasks of reviewing published research and writing research papers by exploring the various philosophies of science used in research. In addition, this seminar will help doctoral students prepare for their dissertation tasks and future publications.

MARK 8322
Scholarship Seminar
as scheduled

Doctoral students will have a one to one contact with a faculty member. The purpose of this seminar is to build up the student's paper development and writing skills toward producing a premier journal article.

MARK 8371
Seminar in Marketing Topics [3-0]
as scheduled

Examination of studied topics involved with current literature and current research interests of faculty and students. Course may be repeated for credit with different topics.

MARK 8372
Marketing Issues Seminar [3-0]
as scheduled

Examination of studied issues involved with current literature and current research interest of faculty and students. Seminar may be repeated with different topics.

Mathematics

MATH 6308
Teaching of Algebraic Concepts [3-0]
as scheduled

This course examines issues, trends and research related to the teaching/learning of secondary school algebra. Topics include historical items with major influence in algebra and a study of relationships between abstract and school algebra. Prerequisite: MATH 4351 or equivalent.

MATH 6310
Topics in Mathematics Teaching [3-0]
as scheduled

This course examines issues, trends and research related to the teaching/learning of secondary school mathematics. Specific topics will vary, but could include: technology in the classroom, mathematical problem solving and the use of applications in the teaching of mathematics. Prerequisite: Graduate standing in mathematics.

MATH 6312
Teaching of Geometric Concepts [3-0]
as scheduled

This course examines issues, trends and research related to the teaching/learning of secondary school geometry. Topics include the historical significance of geometry, the relationship between modern geometry and the geometry taught in schools, and the van Hiele equivalent, model of geometric understanding. Prerequisite: MATH 3304 or consent of instructor.

MATH 6328
Special Problems in Teaching Mathematics [3-0]
as scheduled

A critical analysis of issues, trends and historical developments in elementary and/or secondary mathematics teaching with emphasis on the areas of curriculum and methodology. This course may be repeated for credit when topic changes.

MATH 6330
Linear Algebra [3-0]
as scheduled

Topics include the proof-based theory of matrices, determinants, vector spaces, linear spaces, linear transformations and their matrix representations, linear systems, linear operators, eigenvalues and eigenvectors, invariant subspaces of operators, spectral decompositions, functions of operators and applications to science, industry and business.

Prerequisite: MATH 2345 Elementary Linear Algebra.

MATH 6331
Algebra I [3-0]
as scheduled

This course is an extension of the undergraduate course in abstract algebra. Topics include polynomial rings over a field and finite field extensions.

Prerequisite: MATH 4351 or MATH 6401.

MATH 6332
Algebra II [3-0]
as scheduled

The purpose of this course is to provide essential background in groups, rings and fields, train the student to recognize algebraic structures in various settings and apply the tools and techniques made available by algebraic structures. Topics include groups, structure of groups, rings, modules, Galois theory, structure of fields, commutative rings and modules.

Prerequisite: MATH 6331.

MATH 6337
Advanced Number Theory [3-0]
as scheduled

Topics include the Mobius Inversion Formula, primitive roots, quadratic reciprocity, continued fractions, nonlinear Diophantine equations, sums of squares and primality testing. Prerequisite: MATH 4351 or MATH 6401 with a grade of C or better.

MATH 6352
Analysis I [3-0]
as scheduled

The purpose of this course is to provide the necessary background for all branches of modern mathematics involving analysis and to train the student in the use of axiomatic methods. Topics include metric spaces, sequences, limits, continuity, function spaces, series, differentiation and the Riemann integral.

Prerequisite: MATH 4357 or MATH 6402.

MATH 6353
Analysis II [3-0]
as scheduled

The purpose of this course is to present advanced topics in analysis. Topics may be chosen from (but not restricted to) normed linear spaces, Hilbert spaces, elementary spectral theory, complex analysis, and measure and integration theory. Prerequisite: MATH 6352.

MATH 6359
Applied Analysis [3-0]
as scheduled

This course provides an introduction to methods and applications of mathematical analysis. Topics include: function spaces, linear spaces, inner product spaces, Banach and Hilbert spaces; linear operators on Hilbert spaces, eigenvalues and eigenvectors of operators and orthogonal systems; Green's functions as inverse operators; relations between integral and ordinary differential equations and methods of solving integral equations. Some special functions important for applications are shown.

Prerequisites: MATH 2345, MATH 3349 and MATH 4318 or equivalent. Math 6352 is recommended.

MATH 6360
Ordinary Differential Equations [3-0]
as scheduled

This course examines existence and uniqueness theorems, methods for calculating solutions to systems of ordinary differential equations, the study of algebraic and qualitative properties of solutions, iterative methods for numerical solutions of ordinary differential equations and an introduction to the finite element methods.

Prerequisite: MATH 3349 or consent of instructor.

MATH 6361
Partial Differential Equations [3-0]
as scheduled

This course considers the existence, uniqueness and approximation of solutions to linear and non-linear ordinary, partial and functional differential equations. It also considers the relationships of differential equations with functional analysis. Computer-related methods of approximation are also discussed.

Prerequisite: MATH 3349 or consent of instructor.

MATH 6362
Fourier Analysis [3-0]
as scheduled

The course includes trigonometric series and Fourier Series, Dirichlet Integral, convergence and summability of Fourier Series, uniform convergence and Gibbs phenomena, L² space, properties of Fourier coefficients, Fourier transform and applications, Laplace transform and applications, distributions, Fourier series of distributions, Fourier transforms of generalized functions and orthogonal systems.

Prerequisite: MATH 6353 or consent of instructor.

MATH 6364
Statistical Methods
as scheduled

This is a course in the concepts, methods and usage of statistical data analysis. Topics include test of hypotheses and confidence intervals; linear and multiple regression analysis; concepts of experimental design, randomized blocks and factorial analysis; a brief introduction to non-parametric methods; and the use of statistical software.

Prerequisite: Consent of instructor.

MATH 6365
Probability and Statistics [3-0]
as scheduled

Topics in this course include set theory and concept of probability, conditional probability, random variables, discrete and continuous probability distributions, distribution and expectations of random variables, moment generating functions, transformation of random variables, order statistics, central limit theorem and limiting distributions.

Prerequisite: MATH 2401 or equivalent, or consent of instructor.

MATH 6370
Topology [3-0]
as scheduled

This course is a foundation for the study of analysis, geometry and algebraic topology. Topics include set theory and logic, topological spaces and continuous functions, connectedness, compactness, countability and separation axioms. Prerequisite: MATH 4360 or consent of instructor.

MATH 6375
Numerical Analysis [3-0]
as scheduled

This course provides a fundamental introduction to numerical techniques used in mathematics, computer science, physical sciences and engineering. The course covers basic theory on classical fundamental topics in numerical analysis such as: computer arithmetic, approximation theory, numerical differentiation and integrations, solution of linear and nonlinear algebraic systems, numerical solution of ordinary differential equations and error analysis of the above-mentioned topics. Connections are made to contemporary research in mathematics and its applications to the real world.

Prerequisites: MATH 2345, 2401 with a grade of C or better and computer programming or consent of instructor.

MATH 6376 [3-0]
Numerical Methods for Partial Differential Equations
as scheduled

This course provides a fundamental introduction to numerical techniques used in mathematics, computer science, physical sciences and engineering. The course covers basic theory and applications in the numerical solutions of elliptic, parabolic and hyperbolic partial differential equations. Prerequisites: MATH 2345, 2401 and 3368 with C or better or graduate-level numerical analysis with a B or better, some familiarity with ordinary and partial differential equations and computer programming or consent of instructor.

MATH 6385
Cryptology and Codes
as scheduled

Topics in this applied mathematics course include: elementary ciphers, error-control codes, public key ciphers, random number generators, e-codes and Data Encryption Standard. Supporting topics from number theory, linear

algebra, group theory and ring theory will also be studied. Prerequisite: MATH 4351 or MATH 6401.

MATH 6387
Mathematical Modeling [3-0]
as scheduled

This course presents the theory and application of mathematical modeling. Topics will be selected from dynamic models, stable and unstable motion, stability of linear and nonlinear systems, Liapunov functions, feedback, growth and decay, the logistic model, population models, cycles, bifurcation, catastrophe, biological and biomedical models, chaos, strange attractors, deterministic and random behavior. Prerequisite: Consent of instructor.

MATH 6388
Discrete Mathematics [3-0]
as scheduled

This course is an introduction to modern finite mathematics. Topics include methods of enumeration, graphs, partially ordered sets, and an introduction to Polya's theory of enumeration.

Prerequisite: MATH 4351 or consent of instructor.

MATH 6390
Mathematics Seminar
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 the instructor.

MATH 6391
Master's Project
as scheduled

Individual work or research on advanced mathematical problems conducted under the direct supervision of a faculty member. The course, including a written report, could be taken twice.

MATH 6399
Special Topics in Mathematics
as scheduled

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]
as scheduled

This course provides an extensive survey of abstract algebraic structures from the areas of modern algebra, linear algebra and number theory. Topics include logic, set theory, groups, rings, fields, relations, matrices, vector spaces, mathematical induction, congruences and number-theoretic functions. Emphasis is placed on the development and presentation of rigorous proofs of elementary results in these areas. Prerequisites: Graduate standing and consent of

instructor. Students seeking a MS in Mathematics with prior credit for MATH 6331 or MATH 6332 with a grade of B or higher may not receive credit for this course as an approved elective.

MATH 6402**Survey of Analysis
as scheduled****[3-0]**

Topics are chosen from point set topology in the plane (open sets, compactness, connected sets, continuity), analysis (sequences, series, continuity and differentiability of functions in two-dimensional Euclidean space) and modern geometry (metric postulates for the Euclidean plane, postulates for the non-Euclidean plane). Emphasis is placed on the development and presentation of rigorous proofs of elementary results in these areas.

Prerequisites: Graduate standing and consent of instructor. Students seeking an MS in Mathematics with prior credit for MATH 6352 or MATH 6353 with a grade of B or higher may not receive credit for this course as an approved elective.

MATH 6455**Applied Mathematics I
as scheduled**

The course offers engineering students an in-depth look into the following topics: linear algebra including matrices, vectors, determinants, linear systems and matrix eigenvalue problems; vector differential calculus and vector integral calculus including Integral theorems; complex numbers and functions including complex integration; power series and Taylor series; numeric linear algebra; and probability and statistics. Prerequisite: Calculus III with a C or better.

MATH 6456**Applied Mathematics II
as scheduled**

The course offers engineering students an In-depth look into the following topics: first-order ODEs, second-order linear ODEs, higher order ODEs and systems of ODEs; series solutions of ODEs and special functions; Laplace transforms; Fourier series, integrals, and transforms; partial differential equations (PDEs); and numerics for ODEs and PDEs. Prerequisite: MATH 6455

MATH 7300**Master Thesis I**

First part of two-course sequence.

Prerequisites: Graduate standing and consent of thesis advisor.

MATH 7301**Master Thesis II**

Second part of two-course sequence.

Prerequisites: Graduate standing and consent of thesis advisor.

MBA Online Program

MBAO 6311/AIM 6305

Accounting Analysis (UT Dallas): The course is designed for managers who will use, not prepare, accounting information. It consists of three modules: Financial Accounting, Cost Management and Management Control.

MBAO 6312/MECO 6303

Economic Analysis (UT Dallas): The emphasis of this course will be on fundamental aspects of economic analysis relating to individual firms and individual markets. The student will be introduced to the impact of demand, how firms choose prices, the role of costs, the nature of competition and monopoly, the role of property rights, simple network economics and basic antitrust. Although not heavily used in the course, some reference will be made to calculus.

MBAO 6313/ MANA 6330

Management (UT Pan American): An analysis of formal organizational behavior and the interrelationship of individuals in organizations. A study of the organization as a system of authority, status, leadership, direction, culture, ethics, communication and influence.

MBAO 6314/MS 6973

Quantitative Analysis in Business (UT San Antonio): Introduction to managerial decision analysis using quantitative tools. Topics include a general framework for decision analysis, decision tables and trees, simulation, linear programming and related techniques, classical optimization, forecasting and probabilistic and statistical techniques. Uses applicable decision support software. Emphasis is on applications.

MBAO 6315/MRKT 6310

Marketing Management (UT Permian Basin): An overview of the theory and practice of marketing. Study of the impact of organization structures and processes on the performance of organizational members. The practice of analytic and decision-making skills will be emphasized.

MBAO 6316/FINA 5311

Financial Management (UT Arlington): The study of providing an organization with operating funds and effectively utilizing monetary resources. Primary emphasis on financial decision-making within organizations and techniques of financial analysis and forecasting.

MBAO 6331/GENB 5321

Research Methods: The application of research techniques to business decision-making. Study of the scientific method: definition of survey, development of methodology, evaluation of alternatives, findings, summary, conclusions and recommendations.

MBAO 6332/CIS 5394

Information Systems for Managers: This course will look at technology at a macro level. Each module examines the impact of today's information systems on organizations, education, government, culture, society and the future.

MBAO 6333/BLAW

Legal Environment in Business (UT Brownsville): The course will introduce the student to fundamental legal issues confronting managers in the contemporary American and global legal environment.

MBAO 6334/MANA 6360

Production and Operations Management (UT Brownsville): The study of the role of the production function in the business system and its relationship to marketing and finance. The focus is on the decision-making necessary for productivity improvement in the transformation process of manufacturing and non-manufacturing service organizations. Strategies of production system design, capacity management, quality management, production planning, inventory planning and control, facility location and supply-chain management are explored. Systems studied include Just-in-Time, Total Quality Management and Flexible Manufacturing Systems.
Prerequisite: MBAO 6314.

MBAO 6335/FINA 6328

Contemporary Topics in Financial Management (UT Permian Basin): The study of topics recently published in financial management literature. The topics will be selected from international, corporate risk management topics and vary from term to term.
Prerequisite: MBAO 6316.

MBAO 6336/ACC 6973

Accounting for Decision-Making (UT San Antonio): Accounting provides the primary quantitative data for management decision-making. This course is designed to enhance managers' and future managers' understanding of accounting measurement techniques and to provide them with the tools necessary to use this data. Topics discussed include budgeting, activity-based accounting, discounted cash flow techniques, productivity measurement and performance evaluation are discussed. Prerequisite: MBAO 6311.

MBAO 6371/MANA 5350

Human Resource Management (UT Tyler): Advanced study of selected topics in human resource management with special emphasis on issues of current importance in the field. Topic areas in such human resource functions as staffing, development, appraisal and compensation will be covered. Prerequisite: Students must earn 18 semester hours in the MBA Online program before taking these courses.

MBAO 6372/MANA 6332

Organizational Leadership and Change (UT Pan American): This course is designed to provide a broad overview of leadership and organizational change theories, practices and research. Special attention will be given to critical-thinking skills and the students' ability to communicate and lead effectively in the discussion chat room format.
Prerequisite: Students must earn 18 semester credit hours in the MBA Online program before taking these courses.

MBAO 6373/MANA 6334

International Management: This course addresses the management of business in the international environment and the effects of social, cultural, political, legal, technological and economic environments on strategic planning and decision-making. Prerequisite: Students must earn 18 semester credit hours in the MBA Online program before taking these courses.

MBAO 6395/MANA 5336

Strategic Management (UT Arlington): Integration of the MBA curriculum into a cohesive whole. Treats the several elements of business administration by use of business policy cases and decision simulation methods. Satisfactory completion of this course fulfills the Comprehensive Examination requirement for MBA students. Prerequisite: Must be taken in last semester or with permission of the Graduate Advisor.

Additional Courses for MBAO Finance Emphasis

MBAO 6374/FINA 6325

Options and Futures (UT Permian Basin): Introduction to options, futures and other derivative securities. Topics include option valuation models, principles of forward and futures pricing, structure of markets for derivative securities and strategies for hedging and speculation.
Prerequisite: MBAO 6326.

MBAO 6375/FINA 6327

Portfolio Theory and Management (UT Permian Basin): A comprehensive investigation of modern portfolio theory. Unifying theme: optimization of the trade-off between risk and return. Examination of asset pricing models and security analysis issues within this framework. Course culminates in a discussion of portfolio management and performance evaluation. Prerequisite: MBAO 6316.

MBAO 6376/FINA 6330

International Finance (UT Permian Basin): A comprehensive study of international financial markets that covers currency exchange mechanisms in theory and practice, including international monetary systems; offshore financial markets; and currency risk management, including interest rate and currency futures, options and swaps.
Prerequisite: MBAO 6316.

Mechanical Engineering

MECE 6190 **Engineering Seminar** [1-0] **as scheduled**

This one-hour seminar course is geared toward helping graduate students develop and improve their oral presentation skills and provide them with technical expertise in their field of study. The class will feature engineering presentations prepared by faculty and graduate students from various engineering disciplines and backgrounds. Students enrolled in this class will gain great oral presentation experience by presenting their work in front of an audience and by learning from other featured speakers. The experience gained from this seminar course will prove invaluable for students in their future careers. Prerequisite: Graduate standing in engineering.

MECE 6310 **Intermediate Engineering Analysis** [3-0] **as scheduled**

Topics include vector algebra, coordinate systems, vector differential calculus, vector integral calculus, tensor analysis and applications, calculus of variations and variational analysis. Prerequisite: Graduate standing in engineering.

MECE 6317 **Corrosion Engineering** [3-0] **as scheduled**

The corrosion phenomena are complex due to the coexistence of electrochemical, metallurgical, biological and environmental parameters, which can act at the surfaces. The Corrosion Engineering course will provide an understanding of the mechanisms of corrosion, characterization of the process, protection by coatings and lifetime prediction. The fundamentals of thermodynamics and kinetic concepts will be used to describe destructive chemical interactions of materials with their environment. Particular emphasis will be placed on the identification and solution of practical corrosion problems in real engineering situations. Prerequisite: Graduate standing in engineering.

MECE 6318 **Thermodynamics of Materials** [3-0] **as scheduled**

First, second and third laws of thermodynamics and their applications to materials. Thermodynamics of solutions, phase equilibria, Ellingham diagrams, binary and ternary phase diagrams. Phase transformations, thermodynamics and kinetic principles. Thermodynamics of modern materials. Prerequisites: Graduate standing in engineering

MECE 6319 **Thin Films and Surface Engineering** [3-0] **as scheduled**

Techniques and processes of thin film deposition and surface treatment; Vacuum science and technology; Fundamental

processes occurring during thin film deposition (adsorption, surface diffusion, nucleation, and microstructure development); major thin film deposition processes: evaporation, sputtering, chemical and the coating systems; Testing, characterization and applications of novel thin films (precision mechanical engineering, electronic devices, aerospace industries). Prerequisites: Graduate standing in engineering

MECE 6320 **Fracture Mechanics** [3-0] **as scheduled**

Development of the tools of linear and nonlinear fracture mechanics with coverage of theoretical considerations. The primary focus of the course is applications of tools to solution of practical problems in fracture prediction and failure analysis. Significant attention is paid to the phenomenology of fracture in metals, polymers, ceramics and composites. Prerequisites: Graduate standing in engineering

MECE 6321 **Intermediate Composite Material Design** [3-0] **as scheduled**

An introduction to the theory of mechanics of solids for elastic and viscoelastic composite materials. Emphasis on analysis and design of structural laminate composite including failure mechanism, e.g., fatigue, delamination and dynamics of composites including effective moduli and material damping. Prerequisites: Graduate standing in engineering

MECE 6322 **Ceramic Materials Engineering** [3-0] **as scheduled**

A survey of the fundamental properties of ceramic and glass materials, which are utilized in electronic, electro-optic, thermal and mechanical systems. Includes an introduction to the manufacturing processes specific to ceramics with an emphasis on their interaction with the design process. Probabilistic design schemes for mechanical components are covered and students perform a detailed component or process design. Several laboratory demonstrations and assignments are included. Prerequisites: Graduate standing in engineering.

MECE 6323 **Polymer Processing** [3-0] **as scheduled**

Course designed to provide fundamental understanding of polymer processing techniques. The course presents information that relates the thermo-physical, mechanical and rheological properties of polymeric materials with particular processing techniques. Manufacturing polymer processes such as mixing, extrusion, injection molding, calendaring, fiber spinning and processes related to nano-reinforced polymer fabrication are studied. Prerequisites: Graduate standing in engineering

MECE 6324
Viscoelasticity Theory [3-0]
as scheduled

Introduction to the mathematical theory of linear viscoelasticity with a focus on solution of real problems. Coverage of transform techniques, numerical models, design of viscoelastic components and experimental determination of viscoelastic constitutive relations.
 Prerequisites: Graduate standing in engineering

MECE 6325
Composite Structures Engineering [3-0]
as scheduled

The course is devoted to the theory and/or analysis of composite materials (i.e. composite laminates) and structures in particular. The principles and method for the analysis and design of structural components, from micromechanics through macro-mechanics to structural analysis, are presented along with the discussion of how these theories may be used in practical design problems.
 Prerequisites: Graduate standing in engineering.

MECE 6326
Polymer Engineering [3-0]
as scheduled

Introductory course designed to provide a polymer materials science background to engineering students that will enable them to design polymer components. Prerequisites: Graduate standing in engineering

MECE 6327
Intermediate Nanotechnology [3-0]
as scheduled

Course designed to introduce fundamental nanotechnology and nanoscience aspects as well as to study a variety of technologies and potential applications that fall under the nanotech umbrella. The nanotechnology revolution provides an opportunity for the students to foster creative thinking given the vast potential in the area.
 Prerequisites: Graduate standing in engineering

MECE 6328
Spectroscopic Techniques [3-0]
as scheduled

Course designed to introduce students to spectroscopic techniques used in the identification of organic compounds. Techniques such as mass spectrometry, infrared, wave dispersive spectrometry, x-ray photoelectron spectroscopy and elemental dispersive spectroscopy will be studied. Students will have an opportunity to get practical experience in operating some of the studied techniques.
 Prerequisites: Graduate standing

MECE 6329
Introduction to Laser Material Processing [3-0]
as scheduled

This course will introduce the concept of stimulated emission of radiation and its application in practical laser systems. It will demonstrate means for focusing lasers and the control of the energy produced. Additionally, the course

will present applications in areas such as welding, marking, surface treatments, forming and prototyping. Students will be introduced to the use of lasers and their applications in laser materials processing, the principles of laser-materials interaction, safety and new applications of the laser technology to enhance current practices.
 Prerequisites: Graduate standing in engineering.

MECE 6331
Intermediate Dynamics of Mechanical Systems [3-0]
as scheduled

Intermediate dynamics including Newton-Euler, Lagrange, and Hamilton's principles; gyroscopic effects in mechanical systems; analysis of stability of systems; numerical simulation. Prerequisite: Graduate standing in engineering.

MECE 6332
Intermediate Mechanical Vibrations [3-0]
as scheduled

An examination of linear, multi-degree of freedom and continuous vibratory systems, both conservative and non-conservative. Free and forced vibration problems using generalized coordinates are also examined. Prerequisite: Graduate standing in engineering.

MECE 6333
Nonlinear Dynamics and Chaos [3-0]
as scheduled

This course covers the essentials of nonlinear dynamics and chaos in mechanical engineering. Topics include: Principles of dynamics, principle of virtual work, Hamilton principle, Lagrange equations, continuous systems applications. Nonlinear models and nonlinear phenomena. One-degree-of-freedom systems, qualitative analysis, equilibrium, stability, limit cycles, bifurcation, chaos, strange attractors and fractals; quantitative analysis, approximate asymptotic techniques; conservative systems, non-conservative systems, forced systems, subharmonic and superharmonic resonances, parametrically excited systems. Finite-degree-of-freedom systems, free oscillations of gyroscopic systems, forced oscillations of quadratic or cubic nonlinear systems, parametrically excited systems. Nonlinear continuous systems, beams, strings, plates. Experimental nonlinear dynamics and chaotic vibrations. Utilization of MATLAB in mechanical engineering applications related to nonlinear dynamics and chaos. Prerequisites: Graduate standing in engineering or consent of faculty advisor.



MECE 6334
Modeling MEMS and NEMS [3-0]
as scheduled

This course covers modeling and analysis of microelectromechanical and nanoelectromechanical systems. Topics include introduction, continuum mechanics: heat conduction, elasticity, linear thermo elasticity, fluid dynamics, electromagnetism, numerical methods; scaling, thermally driven systems, modeling elastic structures, beams, membranes, plates, modeling coupled thermal-elastic systems, modeling electrostatic-elastic systems: membranes, beams, plates; modeling magnetically actuated systems: micro-fluidics, and nonlinear dynamics of MEMS and NEMS. Prerequisites: Graduate standing in engineering.

MECE 6335
Orthopedic Biomechanics [3-0]
as scheduled

This course covers the following topics: loads and motion in the musculoskeletal system, tissue mechanics, structural analysis, bone-implant systems, total hip replacements, total knee replacements, articulating surfaces, introduction to and utilization of computational packages in orthopedic biomechanics, computer-aided design of implants, and finite element analysis. Prerequisites: Graduate standing in engineering.

MECE 6339
Tracking Theory and Applications [3-0]
as scheduled

This course provides a means of calculating estimates of quantities based on observations of physical systems. The objective of the course is to give the student an understanding of tracking theory and its applications. The course will include a derivation of the equations used in estimation, and a computer-programming project in which the equations will be applied. The computer-programming project will involve a simulated satellite orbit determination project. Previous course work or knowledge in orbit theory and control theory is not required. Prerequisites: Graduate standing in engineering.

MECE 6341
Modeling of Physical Systems [3-0]
as scheduled

This course reviews principles that govern the behavior of dynamic systems and introduces lumped-parameter methods for building mathematical models and simulations of engineering systems. An energetic approach based on bond graph techniques, invented in 1959 by Henry M. Paynter, is introduced and used to model, simulate and analyze mechanical, electrical, magnetic electromechanical, hydraulic and thermal systems. Advanced topics include nonlinear mechanics, Lagrange's Equations and distributed-parameter systems. Prerequisite: Graduate standing in engineering

MECE 6342
Modern Control Systems [3-0]
as scheduled

This course is an introduction to state variable methods for design and analysis of control systems. Concepts including controllability, observability, calculus of variations, linear quadratic regulator, optimal control, Lyapunov stability criteria and Pontryagin's Minimum Principle are covered for discrete- and continuous-time systems. Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6343
Digital Control Systems [3-0]
as scheduled

This course presents the theory of digital control systems required to design, simulate and implement a control strategy using computers and discrete data manipulation. The development of microprocessors, microcontrollers and digital signal processors allow taking sampled data measurements of the system output and compute a feedback control signal to make decisions and generate a desired system performance. Digital control systems are highly flexible, can implement complex control strategies and are easily reprogrammable. Analysis and design tools will be studied for the design of digital controllers. MATLAB/Simulink will be used to design and simulate the digital controllers. Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6344
Nonlinear Control Systems [3-0]
as scheduled

This course is meant to be an introduction to advanced nonlinear control methods including variable structure systems, feedback linearization and sliding mode control. It covers methods of stability analysis and controller design of nonlinear controls. The course will review such topics as phase-plane analysis and Lyapunov Stability Criteria and advanced topics including adaptive control methods. Prerequisites: MECE 6341 or equivalent and graduate standing in engineering

MECE 6360
Advanced Mechanics of Materials [3-0]
as scheduled

The topics covered in this course include: theory of elasticity, principles of stress and strain, inelastic material behavior, applications of energy methods, bending and torsion of general cross-sections, curved beams, elastic and inelastic stability of columns and flat plates. Prerequisite: Graduate standing in engineering.

MECE 6362
Finite Element Analysis [3-0]
as scheduled

An introduction to the theory of finite element methods with application to stress analysis, natural frequency extraction and heat transfer. Strategies for meshing and applying

boundary conditions are also examined. Existing codes are used for determining finite element solutions. Prerequisites: Graduate standing in engineering.

MECE 6372
Viscous Flow I [3-0]
as scheduled

Course is aimed towards familiarizing the student with the properties of a fluid, viscous flow phenomena and the fundamental equations of compressible viscous flow, such as the conservation of mass and momentum equations and the energy equation. Solutions to some of the most common Newtonian viscous flow equations, such as the Couette and Poiseuille flows and some unsteady duct flows will also be explored. Laminar boundary layers will be studied in detail. Prerequisites: Graduate standing in engineering.

MECE 6373
Viscous Flow II [3-0]
as scheduled

This course is a continuation of MECE 6372 Viscous Flow I. Coverage begins with a detailed study of laminar boundary layers, a select few boundary-layer solutions and two finite-difference approaches will be presented. Stability theory and the latest engineering predictions of laminar to turbulent transition will be examined. Incompressible turbulent mean flow and turbulence modeling will be explored. Prerequisites: MECE 6372 or equivalent or instructor's permission.

MECE 6375
Engineering Acoustics [3-0]
as scheduled

Course is designed to develop an understanding of the fundamentals of acoustics, such as traveling waves in one- and two-dimensions, the derivation and nature of the fundamental fluid acoustic equations, the phenomena associated with reflection, transmission, radiation, reception, absorption and attenuation of sound, and the phenomena associated with cavities and waveguides, including sound propagation in pipes, resonators and filters. Prerequisites: Graduate standing in engineering.

MECE 6379
Gas Dynamics [3-0]
as scheduled

This course is designed to provide a fundamental understanding and a cohesive picture of compressible flow from a modern perspective, which is supportive mixture of classical analysis along with computational techniques. This course covers the basics of one-dimensional compressible flow, integral forms of conservation equations for inviscid flow, shocks and expansion waves, unsteady wave motion and linearized flow. Prerequisites: Graduate standing in engineering.

MECE 6380
Combustion Engineering [3-0]
as scheduled

The topics covered in this course include: role of combustion in energy, environment and fire problems, thermodynamics of combustion (thermochemistry), fuels (gas, liquid, solid), chemical kinetics, combustion of gaseous and vaporized fuels (flames), combustion of liquid fuels, combustion of solid fuels, pollutant emissions, and modern measurements. Prerequisites: Graduate standing in engineering

MECE 6384
HVAC System Design [3-0]
as scheduled

Heating, ventilating, air conditioning and refrigeration is a specific application of the principles of thermodynamics, heat transfer and fluid mechanics to the design and analysis of systems that maintain the environmental conditions of controlled space. An emphasis is placed on the practical application of principles to design and analysis of HVAC systems in building and the use of HVAC software. Prerequisite: Graduate standing in engineering.

MECE 6385
Thermal Systems [3-0]
as scheduled

Modeling and simulating the steady-state and dynamic thermal behavior of components and systems; advanced modeling of properties; and optimization applied to the design of thermal systems. Prerequisite: Graduate standing in engineering.

MECE 6397
Master's Report I
as scheduled

Preparation of a report to fulfill the requirement for the master's degree under the report option. The equivalent of three lecture hours a week for one semester. Offered on the letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate adviser.

MECE 6398
Master's Report II
as scheduled

Preparation of a report to fulfill the requirement for the master's degree under the report option. The equivalent of three lecture hours a week for one semester. Offered on the letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate adviser.

MECE 6399
Topics in Mechanical Engineering [3-0]

In-depth study of specific areas in mechanical engineering. Subject matter varies from semester to semester. May be repeated for credit when subject matter changes. Prerequisites: Graduate standing in engineering.

MECE 7300**Master's Thesis I
as scheduled**

Preparation of a thesis to fulfill the requirement for the master's degree under the thesis option. The equivalent of three lecture hours a week for one semester. Offered on a letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate adviser.

MECE 7301**Master's Thesis II
as scheduled**

Preparation of a thesis to fulfill the requirement for the master's degree under the thesis option. The equivalent of three lecture hours a week for one semester. Offered on a letter-grade basis only. Prerequisites: Graduate standing in mechanical engineering and consent of the graduate adviser.

Management

MGMT 6301**Foundations of Management [3-0]
as scheduled**

This course exposes students to the fundamental concepts of organizations and management. It emphasizes the role of a manager as a decision maker and how managers in every organization plan, organize, motivate, and control in rapidly changing environments.

MGMT 6330**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. Prerequisite: INTB 6304 or MANA 3361.

MGMT 6331**Human Resource Management [3-0]
as scheduled**

An analysis of the functions of personnel administration and of the relationship between the personnel-industrial relations system and the total organization system. Contemporary industrial relations, philosophies and practices.

MGMT 6332**Management Seminar [3-0]
as scheduled**

This course is designed to provide a broad overview of leadership and organizational change theories, practices and research. Special attention will be given to critical thinking skills and the students' ability to communicate and lead effectively in the discussion chat room format.

MGMT 6333**Human Resource Management in Health Care [3-0]
as scheduled**

This course is designed to acquaint students with basic principles and concepts of human resource management within a health care organization. Topics to be covered include recruitment, selection, compensation, employee retention, training and development, and legal compliance. Students will have the opportunity to study human resource related problems faced by various healthcare systems such as hospitals, integrated health care systems, managed care settings, private practices, and public health clinics.

MGMT 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.

MGMT 6335**Entrepreneurship [3-0]
as scheduled**

This course deals with the critical factors of initiating and managing new growth-oriented ventures. There is a primary focus on the behaviors of entrepreneurs (both successful and unsuccessful), the venture creation process, new venture strategies, identification and evaluation of new venture opportunities, new venture financing, legal and tax considerations, and other key aspects of the entrepreneurial process.

MGMT 6360**Production and Operations Management [3-0]
as scheduled**

The study of the role of the production function in the business system and its relationship to marketing and finance. The focus is on the decision-making necessary for productivity improvement in the transformation process of manufacturing and non-manufacturing service organizations. Strategies of production system design, capacity management, quality management; production planning, inventory planning and control, facility location and supply chain management are explored. Systems studies include Just-in-Time, Total Quality Management and Flexible Manufacturing Systems. Prerequisite: INTB 6304 or MGMT 3361.

MGMT 6372**Organizational Leadership and Change [3-0]
as scheduled**

This course is designed to provide a broad overview of leadership and organizational change theories, practices and research. Special attention will be given to critical thinking skills and the students' ability to communicate and lead effectively in the discussion chat room format. Online course is MBAO 6372.

MGMT 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. Prerequisites: Eighteen hours of MBA core courses – ACC 6320, MGMT 6330, FINA 6340, ECON 6350, MGMT 6360 and MARK 6370.

MGMT 7300
Thesis [3-0]
as scheduled

Research and writing of the thesis. This course may be repeated for credit.

MGMT 8322
Scholarship Seminar [3-0]
as scheduled

Doctoral students will have a one to one contact with a faculty member. The purpose of this seminar is to build up the student’s paper development and writing skills toward producing a premier journal article.

MGMT 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.

Management Information Systems

MIS 6330
Management Information Systems [3-0]
as scheduled

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 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 or equivalent

MIS 6391 [3-0]
Information Security and Assurance Management
as scheduled

This course is targeted towards graduate students and practitioners as it focuses on the significance of Information Security in present-day business organizations. The objective of this course is to provide students with a comprehensive understanding of the problems related to Information Security, and solutions to these problems. Students will receive theoretical and practical instructions in both managerial and technical aspects of securing information in organizations. The course will be helpful to students who are interested in attaining Certified Information Systems Security Professional certification and/or careers in Information Security. Prerequisite: MIS 6330 or equivalent

Middle School Mathematics

MMAT 6397
Special Topics in Middle School Mathematics [3-0]
as scheduled

This course covers special topics in middle school mathematics teaching. May be repeated when the topic is different.
 Prerequisite: Consent of instructor.

Music

MUS 6105
Graduate University Choir [1-0]
as scheduled

Vocal music ensemble. Students learn and develop vocal technique and music reading skills while preparing advanced literature of diverse musical styles.

MUS 6106
Graduate University Band [1-0]
as scheduled

Instrumental music ensemble. Students learn and develop instrumental technique and reading skills while preparing advanced literature of diverse musical styles.

MUS 6107
Graduate Symphony Orchestra [1-0]
as scheduled

Symphonic music ensemble. Students learn and develop symphonic instrumental techniques and reading skills while preparing advanced literature of diverse musical styles.

MUS 6120
Graduate Chamber Music [1-0]
as scheduled

Small vocal and/or instrumental ensemble. Students will be exposed to and develop chamber music techniques and skills while preparing advanced music literature of diverse musical styles.

MUS 6130
Graduate Applied Recital [1-0]
as scheduled
 Preparation and presentation of a full-length recital in the student's major area of performance. Literature and quality of performance must be indicative of graduate level study. Student must pass a qualifying recital hearing at least ten days prior to performance. Memorization requirement of 60 minutes applies. A requirement for graduation for students selecting the performance option. Prerequisite: At least 20-degree hours, including six hours of applied music.

MUS 6230
Graduate Applied Music [2-0]
as scheduled
 Private lessons in any area of performance for which graduate instruction is available for a one-hour lesson per week. Quantity and difficulty of literature is indicative of graduate study, requiring considerable practice. A maximum of eight hours may be applied towards a degree. Prerequisite: Acceptance by the instructor.

MUS 6240 [2-0]
Graduate Pedagogy of Applied Vocal/Instrumental Instruction
as scheduled
 Supervised teaching of applied music in an applied lesson setting.

MUS 6334
Research Methods in Music [3-0]
as scheduled
 Music bibliography and criticism, survey of standard research tools in music, and 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
Music of Greater Mexico [3-0]
as scheduled
 This course is an exhaustive survey of Music of Mexico focusing on regional folk and popular genres as well as art music traditions informed by indigenous and folk genres. The course will explore how economics, politics, migration and globalization have all affected the evolution of music in Mexico. Likewise we will discover the work of important composers, songwriters and performers who have helped shape Mexican music and popular culture. To that end, music in Mexican films will also be examined.

MUS 6336
History of Border Music and Performance [3-0]
as scheduled
 This course is designed to promote a greater awareness of music's role in the U.S.-Mexico border region, with special attention to the historical development of folk and popular genres in South Texas. However, as much as this course is about history of music on the U.S.-Mexico border, it is also

about exploring "the border" itself and how it is defined based on geographic, political, cultural, historical, Ideological references. We explore this rather "fluid" notion of the border, which contributes to the conflict and contradictory circumstances of living on, near, and "in-between" the border space.

MUS 6337
Foundations of Ethnomusicology [3-0]
as scheduled
 A study of the history of ethnomusicology since the early 20th century; to provide an overview of the historical and bibliographic resources; to provide an understanding of the interdisciplinary relationship between ethnomusicology and other areas of musical processes and humanistic inquiry.

MUS 6338
Music Ethnography and Fieldwork Methods [3-0]
as scheduled
 This course is an introduction to ethnographic fieldwork in ethnomusicology. The first part of the course introduces students to Influential musical case studies written by ethnomusicologists, anthropologists and folklorists. In the second part, students will see how to critique research methodologies, approaches to interviewing and fieldwork, issues, and ideas, archiving strategies, and analytical methods from different world regions.

MUS 6339
Ethnomusicological Seminars in Music and Culture [3-0]
as scheduled
 Historic and ethnographic studies focusing in-depth on a specific topic surrounding Western and non-Western musical traditions, historical and stylistic periods, and musical repertoires. Possible Topics: "The Politics of Music," "Music and Globalization," "Opera and Society." May be repeated as topics vary to satisfy six hours.

MUS 6340
Seminar in Music Education [3-0]
as scheduled
 Intense examination of issues and problems related to teaching, learning and performance. Subject matter varies with each topic. May be repeated to a maximum of nine hours when topics vary to satisfy degree requirements.

MUS 6341
Foundations of Music Education [3-0]
as scheduled
 This course will explore the structure, principles, and current issues in music teaching and learning, including music education philosophy, psychology, sociology, and history.

MUS 6342
Psychology of Music [3-0]
as scheduled
 This course will explore topics such as music perception, music learning theories, physiological and psychological responses to music, acoustics of sound, music pedagogy, and

assessment of music behaviors.

- MUS 6343**
Seminar in Advanced Conducting [3-0]
as scheduled
 This course will develop conducting techniques for instrumental and vocal ensembles of varying sizes and types, including appropriate rehearsal techniques, score reading, score study, stylistic performance practice, symbiotic and empathic gestural communication, and expression.
- MUS 6344**
Seminar in Elementary Methods [3-0]
as scheduled
 This course is an in-depth study of teaching and learning in the elementary school music classroom and the processes by which children achieve musical growth, including teaching methods and philosophies, classroom management and materials.
- MUS 6345**
Seminar in Secondary Methods [3-0]
as scheduled
 This course will explore methods for teaching music in secondary school settings, including rehearsal techniques for large and small ensembles, classroom management and current issues in secondary school music teaching.
- MUS 6346**
Classroom Management [3-0]
as scheduled
 This course is a systematic review of theory and research relevant to improving classroom management and social learning environments in music classrooms.
- MUS 6347**
Technology in the Classroom [3-0]
as scheduled
 This class will explore current technology available to the music teacher, including computer programs for music learning and composition, Internet resources, basic sound processing techniques, synthesizer programming, sampling, MIDI, and other relevant technologies.
- MUS 6350**
Music Theory: Written and Aural [3-0]
as scheduled
 Advanced study of musical forms, structures and instrumentation. May be repeated to a maximum of six hours when topics vary to satisfy degree requirements
- MUS 6351**
Music Theory: 20th and 21st Centuries [3-0]
as scheduled
 This course will explore the compositional techniques of the twentieth and twenty-first centuries. Topics covered include polytonality, pandiatonicism, atonality, twelve-tone music, serial procedures, and set theory. Course will consist mostly of listening and score analysis. Graduate standing in music required.

- MUS 6352**
Music Theory: Counterpoint [3-0]
as scheduled
 This course will focus on modal and tonal counterpoint. Course work will consist of written exercises modeling the counterpoint styles of previous eras. Counterpoint has long been important training for composers and conductors. An understanding of counterpoint allows for a deeper understanding into how music is put together. It reveals the true mastery of the great composers of all periods. Graduate standing in music required.
- MUS 6353**
Music Theory: Composition/Arranging [3-0]
as scheduled
 This course will focus on basic composition and arranging skills for educators and performers. An analysis component will be incorporated to facilitate better arranging skills. A deeper Insight into music will be gained through an understanding of how music is composed. Graduate standing in music required.
- MUS 6354**
Music Theory: Analysis [3-0]
as scheduled
 This course will explore advanced analytical methods such as Sonata Form Theory and Schenkerian analysis. Emphasis will be given to works from the Classical and Romantic periods. Concepts learned will provide additional analytical tools for the conductor and performer. Graduate standing in music required.
- MUS 6360**
Music History and Literature [3-0]
as scheduled
 Advanced study of the history and literature of music. May be repeated for a maximum of six hours when topics vary, to satisfy degree requirements.
- MUS 6361**
Music History and Literature - Classical and Romantic [3-0]
as scheduled
 This course will review aspects of orchestral, chamber and vocal music: from Haydn to Mahler-growth in the size of orchestras, length of works, and emotional scope of orchestral music, particularly the symphony, (including Beethoven, Brahms, and Bruckner); from Haydn to Brahms-growth in the length and emotional scope of chamber music, particularly the string quartet, (including Mozart, Beethoven, Schumann and Brahms); from Mozart to Wagner and Verdi-developments in vocal music, particularly opera, (including Schubert, Weber, and Mendelssohn); and the war between absolute and program music.

MUS 6362
Music History and Literature -
20th and 21st Centuries [3-0]

as scheduled

Resolution of the absolute/program music divide. Recalling earlier schools of composition (e.g. neo-Classical, neo-Baroque, etc.). Exploration of electronic synthesized sounds, ethnomusicology, Jazz and other popular music. Impressionism and expressionism as it grew out of Wagner and extended tonality, through atonality. Other concepts include: polytonality and extended techniques.

MUS 6363
Music History and Literature - Vocal [3-0]
as scheduled

This course will explore genres for solo voice and voices in combination, with or without Instrumental accompaniment, concentrating in, but not limited to Western Music. It will incorporate monophonic and polyphonic music, Gregorian Chant, the development of the art song and opera, and dabble in 20th century blues and modern music.

MUS 6364
Music History and Literature - Orchestra [3-0]
as scheduled

This course will explore the evolution of the modern orchestra from pre-Haydn to the present. Developments in quality of instruments, instrumental pedagogy, orchestration as composers learn to write for the improved instruments and players. Special attention will be paid to the instrumental concerto and refinement of the symphony concert to the present shape.

MUS 6365
Music History and Literature - Keyboard [3-0]
as scheduled

This course explores the development of keyboard music from virginal, harpsichord, celeste, piano, synthesizers, etc., and its application in genre such as chamber music, concerti, and sonatas including its use in contemporary music. Other topics may include types of tuning (temperaments), innovations, and significant composers from major musical periods.

MUS 6366
Music History and Literature - Wind Band [3-0]
as scheduled

This course explores the modern wind band, or Wind Ensemble, as a result of the evolutionary process over the past three hundred and fifty years. The role of a wind instrument player has changed from a minor role in the orchestral setting, to a supportive ceremonial role in military situations, to a key player in an all wind professional performance group. These changes have required instrument makers to improve the quality of their product and have inspired composers to write for a completely new genre of music.

MUS 6367 [3-0]
Music History and Literature - Medieval and
Renaissance
as scheduled

Topics to be reviewed are: Romanesque and Gothic, Gregorian Chant, organum, the transition from monophonic music to polyphony; The Notre Dame school (including Machaut), Leonin and Perotin, the first non-anonymous composers. Adam de la Halle. Renaissance: the earliest "modern-sounding" music, with imperfect consonance becoming accepted. Sacred choral genres, the motet and the mass, and madrigal. Troubadours/trouveres, minnesingers. Instrumental genres such as the canzona and the ricercar, and the phenomenal growth in the polyphony and the music of Josquin, Janequin, Palestrina, and Lassus.

MUS 6368
Music History and Literature - Baroque 3-0]
as scheduled

This course explores the developments in opera from its roots to its establishment as a genre in 1600 as recitative, to opera seria (including operatic abuses) to the employment of the castrato singer to the impending changes approaching the Classical Period. The opera overture: first the French overture, then the Italian overture, which evolved into the symphony in the Classical Period. Exploration of sacred music, especially the Cantata and the Oratorio. Instrumental forms considered will include the fugue and the Concerto grosso.

MUS 6370
Seminar in Music and Cultures [3-0]
as scheduled

Historic and ethnographic studies focusing on a specific topic surrounding Western and Non-Western musical traditions, historical and stylistic periods and musical repertoires. Possible topics: The Politics of Music, Music and Globalization, Opera and Society. May be repeated for a maximum of nine hours. Prerequisite: Graduate standing in music.

MUS 6371
World Music Cultures [3-0]
as scheduled

This course will introduce students to a variety of musical styles outside the Western art music and within cultural, social and/or political contexts. They will acquire knowledge about specific music traditions and see how to write critically about music as an aspect of culture and society. The study of music from a cultural perspective illustrates the important role of music as a means of expression grounded in religious, political, social, and cultural identity. The course will cover a wide range of musical traditions from various parts of the world including Latin America, Africa, the Middle East, and Asia. Prerequisite: Graduate standing in music.

MUS 6372

Studies in Music and Gender [3-0]
as scheduled

This course brings together work in cultural theory, ethnomusicology, musicology feminism/queer theory, and music interpretation to explore connections between music, sexuality, and gender. Students will examine readings that seek to expand our knowledge of the musical activities of women, examine how concepts of gender and sexuality shape and are shaped by musical practices and discourses, and investigate the construction of desire and sexuality through music. Discussions will be organized around particular topics (rather than by chronology) and in relation to musical works, critical readings, and music from western classical, folk and popular traditions to non-western genres. Prerequisite: Graduate standing in music.

MUS 6373

Music of Africa and the African Diaspora [3-0]
as scheduled

This course examines the transmission of music from Africa throughout Europe, South America, Latin America, the Caribbean, and the U.S. Students examine the ways in which African musical systems have traveled, changed, and incorporated new sounds, how the African experience differs around the globe and how displaced communities share core social processes and characteristics. They will also explore the concept of blackness as a broad and heterogeneous set of qualities that extend beyond the boundaries of Africanism and African-Americanism. Prerequisite: Graduate standing in music.

MUS 6374

Music of Latin America and the Caribbean [3-0]
as scheduled

This course provides the student with an overview of music from diverse cultures in Latin America and the Caribbean. It will serve as an introduction to the many styles and traditions that grew out of pre- and postcolonial Latin America and European-African-Caribbean developments. In particular, we will explore distinct European, African and Indigenous aesthetic and instrumental influences as well as the social, cultural and religious contexts for musical expression and practices. Prerequisite: Graduate standing in music.

MUS 6390

Final Project in Music Education [3-0]
as scheduled

The preparation of an original project approved by an advisory committee in the Department of Music. This final project can be completed by various means and should reflect the interests and expertise of each student. Possible projects may include a conducting recital, a lecture recital, a lecture demonstration, creation of an instructional/method book, or development of a new curriculum. All projects must include a written document in addition to any other materials needed to complete the project. A student may enroll in MUS 6390 upon successful completion of 18 graduate hours toward the Master of Music (Music

Education-without Thesis option) degree. Prerequisite: Successful completion of 18 graduate credit hours toward the Master of Music (Music Education-without Thesis option) degree.

MUS 6395

Independent Studies [3-0]
as scheduled

Individual readings and/or research on a selected topic under the supervision of a faculty member. Prerequisite: Permission of instructor.

MUS 7300

Thesis [3-0]

Preparation of original research and approval of the thesis topic under the supervision of the student's major professor and advisory committee.

MUS 7301

Thesis [3-0]

Continuation of MUS 7300. Prerequisite: MUS 7300.

Nursing

NURS 6208

Nursing Informatics [1-3]
as scheduled

This course provides the student the opportunity to use computer applications in nursing and healthcare. Prerequisites: Graduate student status

NURS 6209

Professional Nursing Issues [2-0]
as scheduled

This course provides a forum for exploration and evaluation of concerns of contemporary nursing. The focus is the nursing profession and current major issues and problems concerning it. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. National, state and regional political activity in nursing is also emphasized. Prerequisite: Graduate student status.

NURS 6247

Role Development for the Nurse Practitioner [1-3]
as scheduled

This course focuses on the five roles of the advanced practice nurse. Incorporated are concepts of peer review, legal parameters of quality practice, ethical practice, caring, business management and accountability. Theoretical concepts related to role theory, feminist theory and andragogy are included. Prerequisites: Graduate student status, NURS 6305 and 6310.

NURS 6301
Theoretical Foundations in Nursing [3-0]
as scheduled

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]
as scheduled

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]
as scheduled

This course focuses on the understanding of statistics as it relates to the research process. Both descriptive and inferential statistics are addressed with computer applications to selected research questions and hypotheses. Prerequisite: Graduate student status, credit for or concurrent enrollment in NURS 6208.

NURS 6304
Advanced Pathophysiology in Nursing [3-0]
as scheduled

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]
as scheduled

This course presents the theoretical and clinical principles for advanced health assessment in specialty nursing practice. Emphasis is placed on physical, psychosocial and cultural assessment to develop a comprehensive health data base. Integration of theory is tested in the laboratory setting. Prerequisites: Graduate student status

NURS 6306
Pharmacology for Advanced Nursing Practice [3-0]
as scheduled

The focus of this course is the pharmacologic and pharmacokinetic principles used in the therapeutic management of common health care problems in clients across the life span. Development of scientifically based clinical pharmacologic management of selected health

problems is emphasized.

Prerequisites: Graduate student status.

NURS 6307
Health Care Policy, Organization and Financing [3-0]
as scheduled

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]
as scheduled

This course focuses on the assessment and management of essentially healthy children and adults, including pregnant women, in a variety of health care settings. Conceptualization of health, health promotion and disease prevention related to age and cultural values is explored. The Mexican-American cultural dynamics receive special emphasis. Age appropriate primary and secondary prevention and risk reduction strategies and their research base are examined.

Prerequisite: Graduate student status.

NURS 6311
Advanced Practice: Rural Health Nursing [2-3]
as scheduled

This course focuses on the role of the advanced practice nurse in coordination and delivery of primary health care in rural settings. Health care related problems specific to rural communities and the Mexican American culture are explored through epidemiological methods. Health promotion interventions, which are community centered, research based and culturally competent are identified. The effect of state and federal regulations on rural primary health care access and quality is analyzed.

Prerequisite: Graduate student status.

NURS 6322
Advanced Adult Health II [1-6]
as scheduled

This course focuses on the collaborative management and evaluation of episodic and restorative health care of adults with acute, major and chronic health deviations. Appropriate diagnostic methods, treatment modalities and referral criteria are utilized in the implementation of protocols for advanced nursing practice. Dynamics of the Mexican American culture continue to be emphasized. Quality assurance through peer review is emphasized.

Prerequisites: NURS 6301, NURS 6304, NURS 6305, NURS 6306, NURS 6310 and graduate student status.

NURS 6323

**Advanced Adult Health III [1-6]
as scheduled**

This course focuses on health restoration, maintenance and promotion of adults in special areas of interest. Dynamics of the Mexican-American culture continue to be emphasized. Students contract with faculty to develop learning opportunities focused on special areas of interest in men's health, women's health and/or care of the older adult. Seminars will focus on intervention and treatment of individual health conditions within these specific populations.
Prerequisites: NURS 6322 and NURS 6306 and Graduate student status.

NURS 6343

**Educator I [2-3]
as scheduled**

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]
as scheduled**

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 6361

**Special Topics [1-6]
as scheduled**

This course is designed for students or practicing NPs wanting to learn or improve their clinical skills. The course will include both didactic and hands-on components. During the didactic, emphasis will be placed on differential diagnosis and the treatment of choice. The hands-on component will allow students to practice with models and equipment, and give them the opportunity for clinical application.

NURS 6612

**Advanced Practice: Family Nurse Practitioner I [2-12]
as scheduled**

This course focuses on assessment, diagnosis and management of common episodic and chronic conditions of children and adults. Included is the study of their epidemiology, pathophysiology, symptom complexes and research-based treatments as well as appropriate patient education resources and protocol development. Attention is given to the integration and application of advanced health assessment skills, developmental and family theories, and health promotion strategies in the diagnostic and management processes of the advanced nurse practitioner role.

Prerequisites: NURS 6311 and NURS 6247.

NURS 6613

**Advanced Practice: Family Nurse Practitioner II [1-15]
as scheduled**

This course provides the opportunity for the graduate student to integrate previously acquired knowledge into practice and to develop clinical expertise as a nurse practitioner. Assessment and management of additional selected health problems frequently seen in primary health care will be explored. Students will increase their responsibility for management of health and illness conditions as competence is validated by preceptors and faculty.
Prerequisite: NURS 6612.

NURS 7300

**Thesis I (Proposal) [1-6]
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 concurrent enrollment in advanced practice clinical courses; NURS 6302 and graduate student status.

NURS 7301

**Thesis II [1-6]
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 [1-6]
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. May be repeated for credit. Prerequisites: Credit for, or concurrent enrollment in NURS 6302.



Occupational Therapy

OCCT 6101 [1-0] **Tools and Analysis in Occupational Therapy** 10 weeks **as scheduled**

Provides students with hands-on skills with a variety of common tools used in occupational therapy and activity analysis.

Prerequisites: OCCT 6301, OCCT 6302, OCCT 6303, OCCT 6305, OCCT 6306

OCCT 6102 [0-1] **Systems Analysis** **as scheduled**

Using customary public health theories and approaches, students will analyze elements of health promotion and prevention for individuals, groups, and populations with regard to occupations, quality of life, well being, and health. Prerequisites: OCCT 6204, OCCT 6303 OCCT 6304

OCCT 6103 [0-1] **Practicum (10 weeks)** **as scheduled**

A field based experience with a minimum of 40 clock hours of supervised experience in a clinical or community setting. Include regular scheduled meetings with faculty for individual and group supervision. Students will be able to observe, describe, and analyze human performance across the life span within the context of everyday life.

Prerequisites: OCCT 6204, OCCT 6301, OCCT 6304, OCCT 6305, OCCT 6306 Course Attributes: Field Placement Insurance

OCCT 6202 [2-0] **Health, Illness and Disability** **as scheduled**

This course examines health, illness and disability in relation to occupation, activities and social participation which affect occupational performance. Explore concepts of health and disability.

Prerequisites: OCCT 6301, OCCT 6304, OCCT 6305, OCCT 6306, OCCT 6401

OCCT 6204 [2-0] **Health Policy and Ethics** **as scheduled**

An examination and analysis of health policies, models and fiscal systems, and health ethics as they are related to health and disability, using both national and international resources. Prerequisites: Acceptance into the MS in OT program.

OCCT 6301 [2-3] **Human Occupation** **as scheduled**

A study of the relationship between human occupation and health through the lifespan. This course will emphasize occupation in the context of social participation as it relates to the health and culture of individuals. Prerequisite: Acceptance into the MS in OT Program.

OCCT 6302 Foundations of Occupational [3-0] **Therapy** **as scheduled**

An introduction to occupational therapy. It surveys the history, philosophy, theoretical concepts and clinical methods and techniques that support the practice of occupational therapy. This course emphasizes the origins, beliefs and values of occupational therapy across the continuum of time, sociopolitical factors and health systems.

Prerequisite: Acceptance into the MS in OT Program.

OCCT 6303 [3-0] **Research Methods in Occupational Therapy** **as scheduled**

An introduction to basic concepts and terminology in scientific inquiry and their application in interpreting published research as it impacts on evidence-based practice. Students will identify and examine examples of evidence that supports the relationship between human occupation and health, including various methodologies using quantitative designs.

Prerequisite: Acceptance into the MSOT Program.

OCCT 6304 [3-0] **Systems Impacting Occupational Performance** **as scheduled**

The study of systems theories as they relate to occupation, health and culture. Using principles of systems theory, students will examine the roles and functions of occupational therapy, in the context of local and regional environments, some of which will be health related. The impact on home, work, and community systems will be explored. Components of the environment (psychological, social, physical and natural) will also be studied.

Prerequisite: OCCT 6301

OCCT 6305 [2-3] **Clinical Anatomy and Biomechanics** **as scheduled**

The examination and analysis of the structure, function and development of biological and physical systems that support occupational performance and their effects on human function. Emphasis is given to the anatomical, kinesiology, and biomechanical function of the human body.

Prerequisites: Acceptance into the MS in OT program

OCCT 6306
Clinical Neuroscience [2-3]
as scheduled
 Examination and analysis of the contribution of the structure, function and development of neurological systems as support for occupational performance and their effect on human function.
 Prerequisite: OCCT 6305

OCCT 6310
Theories of Occupational Therapy [3-0]
as scheduled
 Analysis of occupational therapy theories with regard to concepts of body structure/function, activities, social participation and environmental context. Prerequisites: OCCT 6301, OCCT 6302.

OCCT 6312
Evaluations and Assessments [3-0]
as scheduled
 Examination of the process of evaluation and assessment of individuals. Topics will include the use of standardized and non-standardized assessments, psychometrics of assessments, and scoring and interpretation of results. Prerequisites: OCCT 6302, OCCT 6303, OCCT 6310, OCCT 6401.

OCCT 6313
Qualitative Research in Occupational Therapy [3-0]
as scheduled
 A study of qualitative research methods as they apply to occupational therapy. Students will pursue a research question suitable for scholarly project in collaboration with faculty scholars.
 Prerequisites: OCCT 6204, OCCT 6303

OCCT 6401
Intervention I-Psychosocial Health [3-3]
as scheduled
 Using client or community centered approach within a system model; students will understand and design interventions for mental health disorders and psychosocial issues which affect occupational performance. The plan will include rationale for selection of appropriate theories, assessments and interventions as well as methods for delivery of services. (This course must be passed with a grade of "B" or better in order to proceed).
 Prerequisites: OCCT 6204, OCCT 6301, OCCT 6302, OCCT 6305, OCCT 6306, and OCCT 6310.

OCCT 7101
Research Practicum [1-0]
as scheduled
 The student will work under the direction and supervision of a faculty member on an applied research project. A minimum of 25 clock hours per credit hour is required. May be repeated for a maximum of four credit hours.
 Prerequisites: OCCT 6204, OCCT 6301, OCCT 6303, OCCT 6305, OCCT 6306, OCCT 6310, OCCT 6313, and consent of instructor.

OCCT 7301
Occupational Therapy Skills - Pediatrics [3-0]
as scheduled
 Provides students with hands-on experiences designed to explore intervention strategies and methods related to the treatment of infants, children and adolescents. Includes skills training and a 40 hours field-based practicum. (This course must be passed with a grade of B or better in order to proceed) Prerequisites: OCCT 6202, OCCT 6204, OCCT 6305, OCCT 6306, OCCT 7401 or concurrent with OCCT 7401

OCCT 7302
Management of Occupational Therapy Services [3-0]
as scheduled
 The application of principles of management and systems in the provision of occupational therapy services to individuals and organizations. Prerequisites: OCCT 6103, OCCT 6204, OCCT 6302, OCCT 6304.

OCCT 7303
Population Based Research [3-0]
as scheduled
 Introduction to population-based research methods. Focus on the basic concepts, methods, and nomenclature of epidemiology and the application of these concepts and methods to current public health problems. The grant writing process will also be explored. Prerequisites: OCCT 6204, OCCT 6303, OCCT 6313.

OCCT 7304
Occupational Therapy Skills - Adults [3-0]
as scheduled
 Provides students with hands-on experiences designed to explore intervention strategies and methods related to the treatment of adults and the elderly. Includes skills training and a 40 hours field-based practicum. (This course must be passed with a grade of B or better in order to proceed). Prerequisites: OCCT 6202, OCCT 6204, OCCT 6305, OCCT 6306, OCCT 7402 or concurrent with OCCT 7402.

OCCT 7305
Fields Studies in Occupational Therapy - A [0-3]
as scheduled
 The equivalent of 12 weeks part-time advanced field experience. Student must achieve a passing score on the NBCOT practice exam during the final semester. Prerequisites: Successful completion of all academic coursework and passing score on the academic comprehensive exam.



OCCT 7401
Intervention II - Pediatrics [3-3]
as scheduled

Using a client-centered approach within a systems model, students will understand and design interventions for infants, children and adolescents. The plan will include a rationale for selection of appropriate theories, assessments and interventions as well as methods for delivery of services. (This course must be passed with a grade of B or better in order to proceed).
 Prerequisites: OCCT 6202, OCCT 6305, OCCT 6306, OCCT 6310, OCCT 6312.

OCCT 7402
Intervention III - Adults [3-3]
as scheduled

Using a client or community center approach within a social system, students will understand and design interventions for adults and the elderly. The plans will include rationale for selection of appropriate theories, assessment and interventions as well as methods for delivery of services. (This course must be passed with a grade of B or better in order to proceed).
 Prerequisite: OCCT 6202, OCCT 6305, OCCT 6306, OCCT 6310, OCCT 6401, OCCT 7401. Course Attributes: Course fee, field placement insurance.

OCCT 7601
Field Studies in Occupational Therapy - B [0-6]
as scheduled

The equivalent of 12 weeks full-time advance field experience. Student must achieve a passing score on the NBCOT practice exam during the final semester.
 Prerequisites: Successful completion of all academic coursework and passing score on the academic comprehensive exam.

Physician Assistant Studies

PHAS 5111
Radiology Seminar [0-0-3]
as scheduled

This course provides the physician assistant student with an overview of radiographic technologies such as x-rays, computed tomography scans, ultrasounds, magnetic resonance images and other specialized radiographic studies. Basic interpretation and use of radiographic studies in clinical practice are emphasized in this course. Prerequisites: PHAS 5301, 5318, and 5319.

PHAS 5112
Health Policy and Health Management [1-0]
as scheduled

This course will survey the U.S. health care delivery system and review the economic and policy issues that face our system. Particular focus will be on those issues that directly affect the practicing physician assistant. The student will undertake an in-depth review of managed care,

reimbursement and other economic/financial issues and policies.

PHAS 5113
Clinical Laboratory Interpretation [0-3]
as scheduled

This course is a continuation of CLSC 5227 Clinical Laboratory Methods. Emphasis is given to interpretation and application of laboratory data. Clinical correlations of laboratory data with the history and physical addressed. Using laboratory data to formulate the assessment and plan is discussed. Prerequisites: CLSC 5227, PHAS 5328, 5225, and 5407.

PHAS 5114
Research and Statistical Methods in Health Care [1-0]
as scheduled

Philosophy and principles of research process with emphasis on scientific methods of inquiry. Topics include epidemiology and its relevance to clinical practice, types of research designs, sampling, measurements, data collection and analysis. Students will have the opportunity evaluate current literature from the medical journals in the light of research design and data collection. Prerequisites: Admission into the Physician Assistant Studies Program.

PHAS 5115
Introduction to Clinical Practice [0-0-3]
as scheduled

The purpose of this course is to offer the physician assistant student a means of making the connection from textbook to practice. Students will utilize knowledge and skills learned in all prior coursework in order to formulate the diagnostic workup and treatment plan. Discussions will include the transition to the clinical year.

PHAS 5116
Electrocardiography Seminar [0-0-3]
as scheduled

This seminar covers implementation and interpretation of electrocardiograms (ECG). The ECG interpretation section provides students with a systematic method of interpreting a 12-lead ECG with respect to rate, rhythm and blocks, electrical axis determination, hypertrophy, ischemia, injury, infarction, and miscellaneous drug, electrolyte, disease, and pacemaker effects. Prerequisites: PHAS 6301, 5318, and 5319.

PHAS 5117
Evidence-Based Medicine and Medical Research Design [0-0-3]
as scheduled

This course introduces students to the concepts of evidence-based medicine and medical research design, while stressing the examination of evidence from clinical research as a basis for clinical decision-making. Physician assistant students learn how to construct well-built clinical questions based on patient problems and to perform medical literature searching strategies that yield optimal results. Methods for critically appraising the medical literature are emphasized

throughout the course, as well as strategies for keeping up with new medical findings beyond physician assistant school. Basic techniques of medical writing are also discussed in relationship to the physician assistant student's development of a Master's project upon graduation.
Prerequisite: PHAS 5114.

PHAS 5211
Studies in the Physician Assistant Profession [0-0-3]
as scheduled

Examines the history and concept of the physician assistant profession. Discusses issues that are relevant to professional practice and legal practice. Discussion of future trends in the profession. Prerequisites: Admission into the Physician Assistant Studies Program.

PHAS 5221
Legal and Ethical Issues in Health Care [2-0]
as scheduled

Explores medical jurisprudence and licensing. Students will be introduced to the dynamics of the legal system, moral problems in health care, and the impact of both on professional and institutional interactions with patients. Students will be given opportunity to demonstrate 1) an understanding of ethical principles and legal factors which impinge upon health care, 2) the ability to apply ethical and legal concepts to the analysis of the roles and responsibilities of the health professional.
Prerequisite: PHAS 5211.

PHAS 5225
Medical Interviewing [1-3]
as scheduled

A lecture, laboratory and workshop course designed to provide the means to practice basic techniques of interviewing all age groups, including pediatric and geriatric patients. Details the basic medical history. Cultivates skillful communications with patients and families. Special attention is given to diverse populations. Employs simulated patients and situations.
Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5226
Medical Psychiatry [2-0]
as scheduled

Explores psychiatry illness and expands on the medical interview with a complicated patient or problem. Directs the ability to assess growth and development for all age groups. Coordinates the relationship of the history and physical examination to the human psyche. Course provides an overview of psychiatric concepts and an introductory approach to the evaluation of patients with emotional problems, in preparation for clinical rotations. Discussions include topics in human sexuality, substance abuse, and mental/physical abuse. Prerequisite: PHAS 5225 and 5407.

PHAS 5229
Patient Education [1-3]
as scheduled

A laboratory and workshop course that enables the student the opportunity to prepare and rehearse patient education techniques. Promotes teaching patients and families about disease and treatment in lay terms. Stresses addressing various age groups and medical conditions common to each group. Advocates empathy and acceptance. Employs simulated patients and situations. Prerequisite: PHAS 5225 and 5407.

PHAS 5237
Preventive Medicine and Community Health [2-0]
as scheduled

Examines the bio-demographics of disease in the United States. Emphasis is on prevention from the perspective of the primary health care provider. Encourages community involvement. Discussions focused on prevention of disease. Special attention is given to the local medical practices and beliefs of the Rio Grande Valley and Texas-Mexico border region. Guest lectures include topics in rural health, community outreach, HIV/AIDS awareness and prevention, cancer awareness, sexual health, and folk and alternative medicine. Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5262
Clinical Clerkship [1-3]
as scheduled

This course covers the indications, contraindications, step-by-step procedures, and potential complications of multiple hands-on skills that are commonly performed by Physician Assistants in clinical practice. Examples include: phlebotomy, injections, IV therapy, urethral and nasogastric catheterization, pulmonary function testing, suturing, casting and splinting, various ENT procedures, electrical cardioversion, and use of various types of monitoring devices and restraints. Students will have an opportunity to scrub, gown, and glove in an operating room environment. In addition, students will be required to successfully complete an Advanced Cardiac Life Support (A.C.L.S.) training course. Course also covers documenting in the medical record.
Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5301
Medical Human Anatomy [2-3]
as scheduled

This course provides entry-level physician assistant students with a comprehensive and advanced review of gross anatomy using a regional approach to the human body. Lecture and laboratory components of this course will emphasize the clinical relevance of each area considered. All students will be required to handle and use prosected human cadavers and computer assisted learning (CAL) modules.
Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5306**Medical Physiology and Pathophysiology I [3-0]
as scheduled**

This course provides a systematic approach to the physiologic basis for disease. The general pathology of cell injury, inflammation, infection and neoplasia are presented along with the disease processes of organ systems including the gastrointestinal, cardiovascular, respiratory, endocrine, dermatological, and hematological systems. General concepts of disease are covered including degeneration and necrosis, inflammation and repair, fluid and coagulation disturbances, and general aspects of neoplasia. Disease entities in each organ system are studied with regard to causation, evaluation, and morphology of pathological changes. Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5307**Medical Physiology and Pathophysiology II [3-0]
as scheduled**

This course provides a systematic approach to the physiologic basis for disease. The general pathology is presented along with the disease processes of systems including the gastrointestinal, neurologic, renal, urinary, reproductive, musculoskeletal, and immunological systems. Disease entities in each organ system are studied with regard to causation, evaluation, and morphology of pathological changes. This course is a complement of PHAS 5306, Medical Physiology and Pathophysiology I Prerequisite: PHAS 5306

PHAS 5310**The Art of Medicine Through the Humanities [3-0]
as scheduled**

This topical course explores the connection between the humanities and the practice of medicine. Students will utilize participation, observation and description to enhance their diagnostic and communication skills. The foundation of the course will be student-centered discussions and presentations. Course topics may include fine art, music, dance, film and/or literature. The student will be introduced to a variety of approaches to exploring and describing the humanities with the goal of applying these same skills to the practice of medicine. Location of the course will be both on and off campus. Students need no previous training in the arts to participate. This is an elective course.

PHAS 5318**Introduction to Clinical Medicine I [3-0]
as scheduled**

Emphasis has been placed on the integration of the essential anatomy, physiology, pathology, microbiology, pharmacology, and medical terminology relevant to medical problems encountered in the primary care setting. The differential diagnosis of symptoms and physical findings along with interpretation of laboratory and radiographic tests appropriate to each system is discussed. Topics in ICM I include problems of the respiratory tract, cardiology, endocrinology, hematology, dermatology, geriatrics, and surgery. Students will master the ability to generate a

differential diagnosis specific to the patients' presenting complaints. Students will develop "best approach" in initiating a workshop including interpretation of diagnostic and laboratory data. A case-study format is used. Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5319**Introduction to Clinical Medicine II [3-0]
as scheduled**

Emphasis has been placed on the integration of the essential anatomy, physiology, pathology, microbiology, pharmacology, and medical terminology relevant to medical problems encountered in the primary care setting. The differential diagnosis of symptoms and physical findings along with interpretation of laboratory and radiographic tests appropriate to each system is discussed. Topics in ICM II include problems of nephrology, gastroenterology, infectious disease, rheumatology, geriatrics, neurology, and obstetrics and gynecology. Students will master the ability to generate a differential diagnosis specific to the patients' presenting complaints. Students will develop "best approach" in initiating a workshop including interpretation of diagnostic and laboratory data. A case-study format is used. Prerequisite: PHAS 5318

PHAS 5328 Pharmacology I [3-0]**as scheduled**

This course represents a broad survey of the general principles of pharmacology. Included are the principles of pharmacokinetics and pharmacodynamics, the mechanisms of action, toxicities and interactions of specific drugs and drug groups, and an introduction to medical therapeutics. The physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy will also be discussed. The objective of the course is to lay cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice. Promotes the ability to recognize untoward side effects of medications. Enables the student to calculate dosages, write prescriptions, discuss pharmacokinetics, and determine the appropriate medication for a particular disease. Emphasis is placed on pharmacotherapeutics of disease. Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 5329**Pharmacology II [3-0]
as scheduled**

The physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy will be discussed. The objective of the course is to lay cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice to the common disease encounter in primary care. Treatment modalities including dosing and drug interactions will be discussed. Prerequisite: PHAS 5328.

PHAS 5407

**Patient Evaluation [3-3]
as scheduled**

Instructs the student in the proper use of instruments and techniques used in performing a physical examination of the patient. Connects data gathered from the history to the physical examination. Guides the student in organizing history and physical examination details to present to the physician. Utilizes clinical settings and simulated patients and situations in the laboratory.

Prerequisite: Admission into the Physician Assistant Studies Program.

PHAS 6431

**Pediatric Rotation I
as scheduled**

This is a four-week general pediatric rotation that gives the student the opportunity to 1) elicit and record a complete pediatric history; 2) perform a complete examination; 3) formulate a management plan for common pediatric problems; 4) perform selected screening, diagnostic and treatment procedures as directed by the precepting physician; 5) advise and educate patients and their parents or guardians regarding optimal health of the child; and 6) monitor pediatric milestones.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6432

**Pediatric Rotation II [0-0-4]
as scheduled**

This is a four-week general pediatric rotation that focuses on applying the knowledge gained in the Pediatric I rotation and focuses in increasing the core competencies of medical knowledge, patient care, and practice based-learning in the area of pediatrics. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6433

**Obstetrics and Gynecology Rotation [0-0-4]
as scheduled**

This is a four-week obstetrics and gynecology rotation that gives the student the opportunity to: 1) elicit, organize, record and present a complete data base on an obstetric or gynecologic patient; 2) assist the physician effectively in procedures unique to the discipline; 3) advise the obstetric patient in pre and post-natal care; 4) instruct patients on matters of common gynecological problems.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6435

**Surgery Rotation I [0-0-4]
as scheduled**

This four-week supervised clinical course provides the student with hands-on experience in the operating room setting. Both pre-operative and post-operative assessment and care will be emphasized. The student will be assigned to a general surgeon in private practice, where, under supervision, he/she engages in a wide variety of activities

in each phase of surgical intervention: pre-operative, operative, and post-operative recovery. The student is given opportunities to explore the basic considerations involved in the fluid, electrolyte, and nutritional management of the surgical patient, infections, wound healing, and wound care. Students participate in daily rounds, conferences, and serve on call.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6436

**Surgery Rotation II [0-0-4]
as scheduled**

This is a four-week surgery rotation in orthopedics surgery. The rotation will focus on out-patient and in-patient care of common orthopedic problems. The student will gain competence in evaluating pre and post-op patient care.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6440

**Medicine Rotation I [0-0-4]
as scheduled**

This is a four-week general medicine rotation that gives the student the opportunity to: 1) elicit, organize and record necessary data; 2) present data in a comprehensive or problem oriented fashion; 3) order or recommend appropriate laboratory, radiologic or other diagnostic studies; 4) formulate a management plan for a particular patient problem; 5) follow patient progress by record review and periodic examination; 6) assist the physician in appropriate procedures; 7) advise and educate the patient about health maintenance issues; and 8) understand and establish emergency medical care when necessary. Students will be exposed to a variety of patients and medical conditions, such as infectious diseases, respiratory diseases, cardiovascular diseases, and psychiatric conditions.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6441

**Medicine Rotation II [0-0-4]
as scheduled**

This is a four-week primary care medicine rotation that focuses on applying the knowledge gained in the Medicine I rotation and focuses in increasing the core competencies of medical knowledge, patient care, and practice based-learning in the area of primary care.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6442

**Emergency Medicine [0-0-4]
as scheduled**

This is a four-week rotation that allows the student to develop skills in managing patients in the emergency room setting. These skills include those necessary for appropriate triage, stabilization, and initial management of patients with traumatic injuries and illnesses, the management of the less life threatening problems that present to the emergency

room, working with the pre-hospital emergency medical service team, and making appropriate secondary referrals. Where possible, students participate in grand rounds, noon conferences and other clinically relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 6443
Clinical Elective [0-0-4]
as scheduled

This four-week elective rotation gives the student the opportunity to: 1) understand and manage complex problems in the particular discipline chosen; 2) understand how additional knowledge and skills can be beneficial in the primary care setting; 3) understand how to be a better server in a primary care setting. This course may include extended clinical care hours, emergency or hospital and community service as deemed appropriate by the precepting physician.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 7204
Capstone Research Experience [2-0-0]
as scheduled

This course is designed to enable graduate-level physician assistant students to apply knowledge, concepts, and skills learned in previous education (PHAS 5117 - Evidence-Based Medicine and Medical Research Design). Physician Assistant students research and prepare a written paper on a topic of relevance to clinical medicine using the principles of evidence-based medicine. Students utilize data gathered during PHAS 7401, 7402, and 7403 to plan, formulate, write and report their findings.

Prerequisite: Completion of both Didactic and Clinical Year courses including PHAS 5117

PHAS 7205
Capstone Board Review [2-0-0]
as scheduled

This course offers the physician assistant student a seminar designed for the synthesis of didactic and clinical education and training as it applies to preparation for the Physician Assistant National Certification Examination (PANCE).

Test-taking skills and strategy are discussed. Students are evaluated using a simulated PANCE examination. Students must successfully complete the simulated PANCE examination in order to be certified to take the national PANCE examination.

Prerequisite: Completion of both Didactic and Clinical Year courses or permission from PASP

PHAS 7401
Capstone Clinical Track I [0-0-4]
as scheduled

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Learning objectives

will focus on increasing the core competencies for the PA profession with focus on the medical knowledge competency in the area of medical concentration track the student has chosen.

Prerequisite: Completion of both Didactic and Clinical Year courses.

PHAS 7402
Capstone Clinical Track II [0-0-4]
as scheduled

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply the core competencies of interpersonal and communication skills as well as patient care in the area of medical concentration track the student has chosen. Evaluation of advanced case studies and discussions highlight this area of concentration.

Prerequisite: Completion of both Didactic and Clinical Year courses.

PHAS 7403
Capstone Clinical Track III [0-0-4]
as scheduled

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply practice base and system base practice competencies in the area of medical concentration track the student has chosen. Evaluation of "best practice" case studies and discussions highlight this area of concentration.

Prerequisite: Completion of both Didactic and Clinical Year courses.

PHAS 7415
Bridge Clinical Track I
as scheduled

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Learning objectives will focus on increasing the core competencies for the PA profession with focus on the medical knowledge competency in the area of medical concentration track the student has chosen.

PHAS 7416
Bridge Clinical Track II
as scheduled

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply the core competencies of interpersonal and communication skills as well as patient care in the area of medical concentration track the student has chosen. Evaluation of advanced case studies and discussions highlight this area of concentration.

PHAS 7417

**Bridge Clinical Track III
as scheduled**

This is an advanced clinical course designed to augment and update the existing clinical skills and knowledge of the primary care Physician Assistant. Upon completing this course, students will be able to understand and clinically apply practice base and system base practice competencies in the area of medical concentration track the student has chosen. Evaluation of “best practice” case studies and discussions highlight this area of concentration.

PHAS 7418

**Bridge Research Experience
as scheduled**

This course acquaints the student with the philosophy and principles of the research process with emphasis on scientific methods of inquiry. Students will have the opportunity to evaluate current literature from the medical journals in light of research design and data collection. This course introduces student to the concepts of evidence-based medicine and medical research design, while stressing the examination of evidence from clinical research as a basis for clinical decision-making. Physician Assistant students learn how to construct well-built clinical questions based on patient problems and to perform medical literature searching strategies that yield optimal results. As a capstone, students research and prepare a written paper on a topic of relevance to clinical medicine using the principles of evidence-based medicine. Students utilize data gathered during their clinical Track I, II, and III senior capstone (PHAS 7415, 7417, and 7418) to plan, formulate, write and report their findings. Prerequisite: Acceptance to Bridge program
Note: Only Bridge program students are eligible for this course.

Philosophy

PHIL 5350

**Social and Political Philosophy [3-0]
as scheduled**

This course is an exploration of social and political philosophy. The focus will be geared towards giving graduate students the philosophical background in key areas of social and political philosophy that they will need to be successful in producing research. Topics will vary and may include particular kinds of political systems (liberalism, marxism, anarchism) or different kinds of social analysis (poststructuralism, critical theory, political economy)

PHIL 5363

**Contemporary Continental Philosophy [3-0]
as scheduled**

This course is designed to explore recent French and German philosophy in an interdisciplinary context. The work of poststructuralism, deconstruction, and postmarxism may be considered in their impact on a wide variety of fields including (but not limited to) philosophy, history, literature, psychology, the social sciences, and science in

general. Particular authors may include Foucault, Derrida, Bourdieu, Badiou, Agamben and others. Themes may include knowledge, discourse, truth, power, difference, class, race, sex, and sexuality.

PHIL 6391

**Ethics of Biological Research [3-0]
as scheduled**

This course is designed to offer students pursuing an advanced degree in research the critical thinking tools, the basis in ethical theory and the familiarity with important case studies and issues that will aid in making ethically-informed decisions in their future profession. The topics studied may include, but are not limited to, plagiarism and fraud, ownership of data, animal testing, placebo use, cloning, research errors and moral motivation.

PHIL 6395

**Special Topics in Philosophy [3-0]
as scheduled**

A study of selected issues or figures in philosophy; content will vary. May be repeated for up to 9 hours credit as content changes and if the name of the course is distinct.

Physics

PHYS 5404

**Physics by Inquiry I [3-3]
as scheduled**

Physics by Inquiry is a set of laboratory-based modules that are specifically designed to prepare prospective and practicing teachers (K-12) to teach science as a process of learning by discovery. The modules are also suitable for liberal arts students and for under-prepared students who aspire to science-related careers. Physics by Inquiry I emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with mechanics, thermodynamics and wave motion. Prerequisites: PHYS 1402 or consent of instructor.

PHYS 5405

**Physics by Inquiry II [3-3]
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 under-prepared students who aspire to science-related careers. Physics by Inquiry II emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with electricity, magnetism and modern physics. Prerequisites: PHYS 5404 or consent of instructor.

PHYS 6301**Topics in Physics for Teachers
as scheduled**

A course that incorporates many different topics in physics. Guest lectures, student participation and basic concept presentation will be utilized to teach each topic. Prerequisites: Consent of instructor or PHYS 5404.

PHYS 6302**Environmental Physics for Teachers
as scheduled**

An enhanced understanding of environmental concepts and principles regarding pollution, air, water and waste management. The course will also address local issues and resources to help teachers provide students with opportunity for real world critical thinking and problem solving. The course will include in-depth industry site visits and guided field trips to environmentally sensitive areas. Both renewable and non-renewable energy resources with the concept of energy conservation, waste management and disposal methods will be emphasized. Prerequisites: Consent of instructor or PHYS 5404.

PHYS 6303**Quantum Information
as scheduled**

The Heisenberg uncertainty principles and implications, observation and measurement. Introduction to quantum mechanics, four quantum numbers and hands-on experiment will be provided. The Schrodinger Equation and its application to bound and free particles; the hydrogen atom. Prerequisite: PHYS 3402 or PHYS 6400 or consent of instructor.

PHYS 6400**Astronomy by Sight
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 under-prepared students who aspire to science-related careers. Astronomy by Sight emphasizes the process of science rather than the presentation and explanation of facts. This course will deal with the sun, moon and stars, which will help predict and explain daily/monthly changes in the appearance of the sky. It will also deal with the earth, solar system and possibility of extraterrestrial life.

Prerequisites: PHYS 5405 or consent of instructor.



Psychology

PSY 6174**[1-0]****Special Topics in Psychology: Journal and BCBA Review
as scheduled**

This course is designed to monitor progress of students in the BCBA concentration of the M.A. Experimental Psychology program and to provide a format to review recent literature in Applied Behavior Analysis. May be repeated as topics change.

PSY6274**[2-0]****Special Topics in Psychology
as scheduled**

Selected topics in psychology under the supervision of one or more faculty. May be repeated as topics change.

PSY 6301**[3-0]****Psychological Statistics
as scheduled**

This course will provide an advanced introduction to statistical methods commonly used in psychological science.

PSY6305**[3-0]****Advanced Studies in Psychopathology
as scheduled**

A study of the classification, etiology and treatment of abnormal behaviors. Supporting outside readings will be emphasized.

PSY6311**[3-0]****Advanced Studies in Personality Theory
as scheduled**

The theories and approaches reviewed are the foundations of conceptualizing personality development and change; they are foundations of therapeutic interventions and methods of assessing personality structure and process.

PSY6315**[3-0]****Applied Behavior Analysis
as scheduled**

Principles and techniques of modifying behaviors across therapeutic, institutional, and natural settings. Following a review of behavioral principles and functional analysis, practical, educational, and clinical aspects of behavior interventions will be emphasized.

Prerequisite: Graduate standing and PSY 6325

PSY6320**[3-0]****Neuropsychology
as scheduled**

In-depth study of the relationship between biological events and behavior. Emphasis is placed on the physiological substrates of learning, memory, emotion and motivation.

PSY6325
Conditioning and Learning [3-0]
as scheduled

A study of the principles of laws of respondent and operant conditioning in determining behavior. Emphasis will be placed on the experimental analysis of behavior with attention to other learning theories that have been extensively studied in the laboratory and productively applied to problems of human behavior. Laboratory experience is required.

PSY6326
Theoretical Issues in Learning [3-0]
as scheduled

A survey of theoretical perspectives in learning. Historical as well as contemporary issues will be emphasized.

PSY 6330
Developmental Psychology [3-0]
as scheduled

The study of growth and development processes throughout the life cycle. Physical, social and psychological factors involved in life changes are addressed. An overview, as well as selected current special topics within lifespan human development are addressed.

PSY6332
Research Design [3-0]
as scheduled

Overview of single and multiple factor correlational and experimental designs and their analysis. The course covers various central design issues including control, internal and external validity, group comparisons and small-n designs.

PSY 6334
Single Subject Designs [3-0]
as scheduled

A comprehensive examination of single-subject designs and methods used to evaluate behavior change as a unique strategy in the experimental analysis of behavior and applied behavior analysis.

Prerequisite: Graduate standing

PSY6336
Advanced Psychological Measurement [3-0]
as scheduled

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.

PSY6340
Cross Cultural Psychology [3-0]
as scheduled

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.

PSY6350
Behavioral Assessment [3-0]
as scheduled

Theory and methods of the behavioral measurement and assessment of individuals and systems with an emphasis on direct observation of overt behavior, environmental assessment, functional analysis, task analysis, needs assessment, experimental analysis of behavior, program monitoring, and evaluation.

PSY6352
Personality Assessment [3-0]
as scheduled

Development of personality testing. Study and administration of personality assessment techniques. Prerequisites: PSY 6311, PSY 6305

PSY6354
Individual Psychotherapy [3-0]
as scheduled

Reviews current and historical approaches to psychotherapy. Instruction and practice in techniques of individual psychotherapy, case presentation and report writing. Prerequisites: PSY 6305 and admission to a graduate program in psychology.

PSY6355
Psychology and Mythology [3-0]
as scheduled

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. Previous Course Number: PSY 5355; a student may receive credit in only one course. Equivalent Course: May be counted as ANTH 6355; a student may receive credit in only one course. Prerequisites: Six hours of psychology and consent of instructor.

PSY6356
Group Psychotherapy [3-0]
as scheduled

Instruction and practice in techniques of group psychotherapy. Prerequisites: PSY 6305 and PSY 6311.

PSY6363
Contemporary Professional Issues and Ethics in Psychology [3-0]
as scheduled

Mastering principles in the practice of professional psychology according to the ethical standards established by the American Psychological Association and American Counseling Association with attention to related legal issues as well as the specific guidelines for responsible conduct

and disciplinary standards as articulated by the Behavioral Analyst Certification Board.

PSY6364**Clinical Practicum
as scheduled**

Application of psychological tests and psychotherapeutic procedures. May be repeated for a maximum of nine hours for credit.

Prerequisites: , PSY 6354

PSY6365**Applied Behavior Analysis Practicum I [3-0]
as scheduled**

Placement and supervised experience of applied behavior analysis and intervention in an educational, family, institutional, or clinical practice site. May be repeated for a maximum of 15 hours for credit. Prerequisites: PSY 6315

PSY6368**Internship
as scheduled**

Application of psychological tests and psychotherapeutic procedures in a clinical setting. Provided as a capstone training experience for the Masters of Arts in Clinical Psychology.

Prerequisites: Consent of instructor.

PSY6374**Special Topics in Psychology [3-0]
as scheduled**

Selected topics in psychology. May be repeated for credit when topic varies.

PSY6376**Directed Studies [3-0]
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: Graduate standing.

PSY7172**Thesis [1-0]
as scheduled**

Conduct original research initiated in PSY 7370 for students who have not yet completed the thesis requirement.

Prerequisite: Consent of instructor.

PSY7370**Thesis [3-0]**

Conduct original research project leading to the production of a formal written thesis.

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 6303**Ethics for Public Service [3-0]
as scheduled**

A study of the fundamental principles and duties related to ethical and professional expectations of public service managers and employees. Constitutional and legal values, accountability bureaucratic discretion and professionalism will be considered.

PUBA6304**Intergovernmental Relations [3-0]
as scheduled**

Analysis of political, administrative and fiscal relationships among governments in the American political system. The constitutional and theoretical basis for federalism; national-state-local government relations and regional arrangements.

PUBA 6305**Problems in State and Local Government [3-0]
as scheduled**

An analysis of the basic problems of American state and local government, with an emphasis on administrative problems and issues in state, county and local governments.

PUBA 6306**Public Administration: Past, Present and Future [3-0]
as scheduled**

A comprehensive review of the major eras of public administration during the 20th century. An in-depth look at public administration In the first decade of the 21st century. A futurist look at reasonable expectations of public administration during the next few decades

PUBA 6307
The Politics of Scarcity [3-0]
as scheduled

An examination of the major public policy issues and theories involved in crisis areas of poverty, declining natural resources, arable land, water and inadequate food supplies; amidst government financial shortfalls, increasing population and threatened environment.
 -NASPAA Area B: Public Policy Analysis

PUBA 6309
Introduction to Planning [3-0]
as scheduled

Introduction to planning theory and practice, basic planning methods and the planning profession. Analysis of urban community and regional planning organizations and the social, economic and political structure and functions that address economic and population growth problems.

PUBA 6311
The Formulation of Public Policy [3-0]
as scheduled

An analysis of the impact of public policy on the political environment. Several policies will be studied and analyzed regarding their formulation and implementation.

PUBA 6312
Policy Implementation and Program Evaluation [3-0]
as scheduled

An advanced course with the application of quantitative methods to the evaluation of public policies and programs regarding their implementation.

- NASPAA Area C: Managerial Processes

PUBA 6320
Public Finance Administration [3-0]
as scheduled

Analysis of the formation, management and administration of fiscal policies at all levels of government in the United States. The budgeting process and the practice of resource allocation will be studied.

PUBA 6321
Public Personnel Administration [3-0]
as scheduled

Analysis of the major personnel management problems and issues in government. The recruitment, selection, development, advancement and evaluation of personnel will be examined. Employee-employer relations, affirmative action, collective bargaining and interpersonal and ethical relationships will be studied.

PUBA 6322
Introduction to Community Development [3-0]
as scheduled

Theory and practice of urban, community and regional development and analysis of the social, economic and political organizations involved in community, economic and population growth problems.

PUBA 6323 [3-0]
Management of Governmental Information Systems
as scheduled

A study of the theoretical assumptions, conceptual foundations and design and implementation of computer-based governmental information systems.

PUBA 6325
Public Administration Internship [3-0]
as scheduled

The practical public management experience through an arranged internship in a government or nonprofit agency for one semester. Periodic seminars and supervisor-intern consultations will be held, with a final administrative report required. Prerequisite: Consent of director.

PUBA 6327
Management of Nonprofit Organizations [3-0]
as scheduled

Study of the management of nonprofit organizations. Community-based, not-for-profit, and non-governmental (private) organizations have grown and developed impressively in recent years providing a multitude of social and economic programs. These organizations and programs will be studied.

NASPAA Area D: Analytical Tools

PUBA 6330
Scope and Methods in Public Administration [3-0]
as scheduled

Analytical methods, research techniques and models of inquiry in the study of public administration.

- NASPAA Area E:

Individual-Group-Organizational Behavior

PUBA 6341 [3-0]
Political Leadership:
Decision-Making and Management
in Public Organizations
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 6361
Directed Research [3-0]
as scheduled

Requires approval of supervising faculty member. Intensive research of a contemporary topic in public administration. A proposal, including appropriate time lines, will be submitted to and approved by the supervising faculty member. May be repeated once for credit if topic changes.

PUBA 6362
Independent Study [3-0]
as scheduled

Requires the approval of the supervising faculty member. Allows student to work independently on a specialized area. The student will submit a written plan, with outcomes and time lines, which must be approved by the supervising faculty. May be repeated once for credit if topic changes.

PUBA 6363
Special Topics [3-0]
as scheduled

Intensive study of a specialized area of public administration or a selected topic in contemporary public management. May be repeated once for credit if topic changes.

PUBA 7300
7301 Thesis [3-0]
as scheduled

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 [3-0]
Applied Research Grant Project
as scheduled

A problem-oriented and Applied Research Grant Project to fulfill the non-thesis option in the Master of Public Administration degree. The 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 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]
as scheduled

Business research techniques and methodologies. Topics include scientific method, business information sources, research proposal development and evaluation, research design, scaling and instrument design, sampling design, statistical packages and applications, research reporting and writing and ethical considerations in business research.
 Prerequisite: QUMT 6303 or QUMT 3343.

QUMT 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.

QUMT 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: QUMT 8310.

QUMT 8313
Nonparametric Data Analysis [3-0]
as scheduled

This course focuses on nonparametric statistical techniques commonly used in business research, such as one-sample, two-sample, three-or more samples, matched pairs, lack of Independence, nonparametric regression, goodness-of-fit, etc. Also, their parametric counterparts will be compared in different scenarios.
 Prerequisite: QUMT 8310.6303 or the equivalent.

QUMT 8314
Selected Topics in Quantitative Methods [3-0]
as scheduled

This course is designed to focus on a specific topic in quantitative methods. Such topics may include generalized linear modeling, hierarchical linear modeling, multilevel modeling, experimental design, structural equation modeling, and computer simulation etc.

Reading

READ 6306
Special Topics [3-0]
as scheduled

Extensive study in topics related to literacy and the teaching of reading. May be repeated for credit when the topic varies.

READ 6308
Foundations of Reading I [3-0]
as scheduled

This course examines major theories of reading, the influence of culture on literacy, and emerging areas of literacy research.

READ 6309
Foundations of Reading II [3-0]
as scheduled

This course builds on READ 6308, Foundations of Reading I. Students examine read alouds, shared reading, guided reading and process writing. Students apply this knowledge to practice in K-12 classrooms.

READ 6310
Children's and Adolescent Literature [3-0]
as scheduled

This course is designed to provide a broad knowledge of quality children's and adolescent literature. Participants will explore theoretical perspectives related to children's and adolescent literature such as transactional theory and critical literacy. Participants will also engage with methods for using literature in the reading classroom.

READ 6313
Linguistics for Reading Teachers [3-0]
as scheduled

This course examines how aspects of linguistics relate to teaching students reading, spelling, phonics and grammar. Areas of linguistics covered include phonology, morphology and syntax. The course also considers how linguistic theory has informed ESI theory and methodology.

READ 6320
Integrating Writing in the Reading Classroom [3-0]
as scheduled

This course examines the integration of reading and writing processes. Participants will explore the interconnections between reading and writing, how to use writing to support reading comprehension, strategies for teaching writing in K-12 reading classrooms and writing across the curriculum.

READ 6323
Teaching the Struggling Reader [3-0]
as scheduled

This course is concerned with underlying reasons some students struggle with reading and what teachers can do to support these students. Participants will explore why readers may have difficulty and what curricular structures and teaching strategies can help them.

READ 6325
Practicum in Reading [3-0]
as scheduled

Participants will examine the multiple facets of the Reading Specialist, from identifying and working with readers who need extra help to being a literacy leader in their schools and communities. They will particularly focus on the process of mentoring and providing appropriate professional development.

READ 6329
Reading Assessment [3-0]
as scheduled

Participants will explore various forms of formal and informal assessments suitable to the reading classroom. They will see how to develop or select, administer, and interpret appropriate assessments. Participants will also see how to make instructional decisions based on the results of these assessments.

Prerequisite: ED 6323.

READ 6351
Teaching Content Area Reading [3-0]
as scheduled

Participants will examine the literacy needs of adolescents and literacy demands in the content areas. This course also introduces research based strategies to support content area reading at all grade levels, especially when working with English Language Learners and struggling readers.

Rehabilitation Counseling

REHS 6300
Introduction to Rehabilitation Foundations [3-0]
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]
as scheduled

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]
as scheduled

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]
as scheduled

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]
as scheduled

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]
as scheduled

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]
as scheduled

Advanced studies in medical conditions most frequently encountered by rehabilitation professionals. A detailed study of the medical resources employed by professionals assisting people with disabilities will occur. Students will be introduced to the diagnosis, prognosis and vocational implications of various disabilities.

REHS 6350
Job Placement Theories and Methods [3-0]
as scheduled

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]
as scheduled

Study of major counseling theories and techniques with focus on principles and competencies in rehabilitation counseling, including special applications and modifications that may be required in counseling persons with mental, physical or emotional disabilities.

REHS 6370
Techniques in Rehabilitation Counseling [3-0]
as scheduled

Study of current techniques utilized in rehabilitation counseling and rehabilitation client services. Structured learning experiences for development of competencies in utilization of the techniques with rehabilitation clients. Prerequisite: REHS 6360.

REHS 6375
Psychiatric Rehabilitation [3-0]
as scheduled

The purpose of this course is to introduce the basic concepts of abnormal psychology and to facilitate understanding of the principles of psychiatric rehabilitation as it relates to working with individuals with mental disorders and other disabilities. The course is also designed to teach students specific concepts, skills and competencies required to differentiate between normal human growth and development and abnormal human behavior and symptoms using the DSM-IV-TR.

REHS 6380
Special Topics in Rehabilitation [3-0]
as scheduled

Selected topics in rehabilitation. May be repeated for a maximum of nine credit hours when the topic varies.

REHS 6390
Practicum [3-0]
as scheduled

A minimum of 100 clock hours of supervised experiences in a clinically-based rehabilitation counseling setting under the supervision of qualified rehabilitation faculty. Includes a one-hour-per-week seminar in ethics and standards of practice in rehabilitation, as well as regularly scheduled weekly meetings for individual and group supervision.

Prerequisites: REHS 6300, REHS 6360, REHS 6370, or program permission.

REHS 7100
Independent Study [1-0]
as scheduled

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

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.

REHS7301

Advanced Thesis [3-0]

This is the second half of the student's thesis. This section is taken when the student expects to defend their thesis.
Prerequisite: REHS 7300

REHS 7302

Research Grant Project [3-0]

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 7303

Advanced Research Grant Project [3-0]

This class is a continuation of REHS 7302
Prerequisites: REHS 7302

REHS 7310

Research Topics in Rehabilitation [3-0] as scheduled

Current research topics, trends, and research techniques will be examined including both quantitative and qualitative methodologies. This course will serve as the capstone research course focusing previously learned statistical analyses and methodologies into a rehabilitation counseling focus.
Prerequisites: EPSY 6350, 6351, 6352 or consent of the instructor.

REHS 7353

Seminar in Forensic and Private Rehabilitation [3-0] as scheduled

Students will be introduced to the field of forensic rehabilitation in the private sector. An understanding of forensic vocational assessment and life care planning in litigation is presented as well as vocational expert testimony with the Social Security Administration. Students learn and demonstrate the basic skills in performing forensic vocational assessments and life care plans using case studies. A field based observation experience is included.

REHS 7354

Seminar in Assistive Technology [3-0] as scheduled

This didactic course introduces students to a variety of assistive devices and technologies available for persons with physical, cognitive and sensory disabilities. In-class learning involves the functional limitations of various disabilities and how assistive technology enables persons at work, home or play. The psychosocial considerations for persons who need to rely on technology will also be addressed. Students will also explore assistive technology web sites online for a variety of disabilities. Students will be introduced to the use various devices.

REHS 7355

Seminar in Addictions [3-0] as scheduled

This course focuses on the models of addiction, assessment, treatment planning, aspects of behavior change, program planning and evaluation, and counseling issues. Harm reduction and dual diagnosis are explored. Students additionally explore advanced concepts and state-of-the-art treatment modalities in the area of addictions. Issues to be discussed include ethics, pharmacology, advanced medical treatment, medication issues and family cultural issues.

REHS 7357

Seminar in Assessment [3-0] as scheduled

This course focuses on the principles, methods, and theoretical foundations of psychological and vocational assessment, with emphasis on psychological tests and measurements. Topics to be examined include intelligence, achievement, personality, behavior, and emotional functioning among persons with disabilities. Career guidance and placement factors will also be investigated. In addition, testing issues relating to standardization, validity, and test reliability in a multicultural society will be explored.

REHS 7600

Internship in Rehabilitation [6-0] as scheduled

A 600-hour applied experience in the student's area of specialization in a rehabilitation agency or facility external to the University. Includes a one hour-per-week seminar and group supervision meeting.
Prerequisites: Completion of all required coursework and practicum or program approval.

REHS 8101 Independent Study [1-0] as scheduled

This course involves prior approval with a professor who is able to work one-to-one with a student on a concentrated area of study or desired specialization. May be repeated for up to nine hours.

REHS 8300
Seminar in Dissertation Writing [3-0]
as scheduled

This course introduces students to the dissertation writing process and procedures. Stages of dissertation development, university approvals for using human participants, generating ideas for the dissertation and weighing the feasibility of various ideas are discussed.

REHS 8302
Research Grant Writing [3-0]
as scheduled

This course involves an understanding and in-depth analysis of grant writing as well as the process and procedures for competitions with various agencies. Students will be introduced to where to look for grants, and actively write and compete for grant funding. Skills in researching and literature review narrative creation, budget development, meeting grant priorities, and fiscal management are explored. All students will compete and submit an independent grant proposal for external funding at the conclusion of the course. May be repeated three times for credit.

REHS 8303
Advanced Research Grants [3-0]
as scheduled

A problem-oriented and applied research grant project. The applied research grant project requires the students 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. May be repeated three times for credit.

REHS 8310
Research Topics in Rehabilitation [3-0]
as scheduled

Current research topics, trends, and research techniques will be examined including both quantitative and qualitative methodologies. This course will serve as the capstone research course focusing on previously learned statistical analysis and methodologies into a rehabilitation counseling focus. Prerequisites: EPSY 6350, 6351, 6352, or consent of the instructor. May be repeated three times for credit.

REHS 8311 [3-0]
Seminar in Rehabilitation Research and Publication
as scheduled

Examines contemporary studies in rehabilitation research with an emphasis on critically analyzing studies of individual interest. An introduction to journal editorial board manuscript review will be discussed with case samples for critically reviewing. Students will also demonstrate researching and writing ability by either co-authoring

or solely existing research with faculty or developing a conceptual paper for publication.

REHS 8312
Advanced Counseling Practices I [3-0]
as scheduled

This in-class course offers an in-depth, advanced understanding of the major theories and techniques used for counseling persons experiencing developmental crises and severe psychopathology. The course is designed to provide students with an opportunity to integrate theory and research, using a brief, solution-focused approach to counseling detailing the most prominent of mental health disorders. Crisis intervention techniques will also be examined.

REHS 8313 Rehabilitation Administration [3-0]
and Grant Management
as scheduled

This course explores the critical role of management skills in human services. Students will gain an understanding of management styles, delegating effectively, conflict resolution strategies, organizational psychology principles, performance evaluations, personnel decisions, mentoring and fiscal responsibility decision-making. Students will also shadow a human services program director as well as be required to develop a proposal for a not-for-profit organization.

REHS 8314
Supervised Teaching Experience [3-0]
as scheduled

Under the supervision of advising faculty, students will teach an undergraduate class by preparing and delivering various lectures for a specified course. Students will demonstrate teaching skills using a variety of multimedia modalities as well as other didactic teaching methods.

REHS 8315
Intern Supervision Experience [3-0]
as scheduled

Under the supervision of advising faculty, students will supervise undergraduates or graduates performing their internship. Students will be introduced to the necessary accreditation standards criteria for supervising student interns and learn procedures and strategies in the process.

REHS8317
Advanced Counseling Practicum II [3-0]
as scheduled

Students will spend a minimum of 12 hours a week in a public or private mental health agency field placement pre-approved by the Program Coordinator. Each student will carry a caseload of 4-6 clients whose presenting concerns range from developmental issues to severe psychopathology. Students will be responsible for conducting client intakes; developing treatment plans; providing individual, group, and couples therapy; and completing paperwork and other case management functions. Students will be required to attend didactic supervision.

REHS 8318
Distance Education Teaching Experience I [3-0]
as scheduled

This course involves an introduction to, and the development of, a web-based course in rehabilitation counseling. Students will be introduced to either WebCT or Blackboard with Bobby approval development technology to develop a course utilizing University computer professional staff.

REHS 8319
Professional Ethics [3-0]
as scheduled

Professional ethics focuses on rehabilitation counseling code of ethics, it's application to both rehabilitation educators and counselors. Students will apply professional ethics in cases of ethical dilemmas, and explore various issues to delineate potential ethical violations and procedural remediation strategies.

REHS 8353
Seminar in Forensic and Private Rehabilitation [3-0]
as scheduled

Students will be introduced to the field of forensic rehabilitation in the private sector. An understanding of forensic vocational assessment and life care planning in litigation is presented as well as vocational expert testimony with the Social Security Administration. Students learn and demonstrate the basic skills in performing forensic vocational assessments and life care plans using case studies. A field based observation experience is included. May be repeated three times for credit.

REHS 8354
Seminar in Assistive Technology [3-0]
as scheduled

This didactic course introduces students to a variety of assistive devices and technologies available for persons with physical, cognitive and sensory disabilities. In-class learning involves the functional limitations of various disabilities and how assistive technology enables persons at work, home or play. The psychosocial considerations for persons who need to rely on technology will also be addressed. Students will also explore assistive technology websites online for a variety of disabilities. Students will be introduced to the use various devices. May be repeated three times for credit.

REHS 8355
Seminar in Addictions [3-0]
as scheduled

This course focuses on the models of addiction, assessment, treatment planning, aspects of behaviour change, program planning and evaluation, and counseling issues. Harm reduction and dual diagnosis are explored. Students additionally explore advanced concepts and state-of-the-art treatment modalities in the area of addictions. Issues to be discussed include ethics pharmacology, advanced medical treatment, medication issues and family central issues. May be repeated three times for credit.

REHS 8356
Distance Education Teaching Experience II [3-0]
as scheduled

This course involves co-teaching a distance education course via web-based technology. Experience involves updating curriculum and syllabus online, conducting chat rooms, administering assignments and exams, and evaluation of the course.

REHS 8357
Seminar in Assessment [3-0]
as scheduled

This course focuses on the principles, methods, and theoretical foundations of psychological and vocational assessment, with emphasis on psychological tests and measurements. Topics to be examined include intelligence, achievement, personality, behavior, and emotional functioning among persons with disabilities. Career guidance and placement factors will also be investigated. In addition, testing issues relating to standardization, validity, and test reliability in a multicultural society will be explored. May be repeated three times for credit.

REHS 8380
Special Topics in Rehabilitation [3-0]
as scheduled

This course will be offered in a specialized area in rehabilitation counseling not already addressed in the doctoral program. Topics are generated by student demand or faculty expertise. May be repeated three times for credit.

REHS 8600
Counseling Internship [6-0]
as scheduled

A supervised 600 hour counseling internship is available to students as an elective for those non-masters in rehabilitation counseling students who wish to become certified as rehabilitation counselors under Category I of the eligibility standards for the Commission on Rehabilitation Counselor Certification.

REHS 9190
Dissertation [1-0]
 Dissertation (1 hour ongoing until completed, if needed)
 Prerequisites: all coursework

REHS 9390
Dissertation [3-0]
 Dissertation (1 hour ongoing until completed, if needed)
 Prerequisites: all coursework

REHS 9690
Dissertation [6-0]
 Dissertation (must be repeated twice for 2 semesters)

Students will choose an advisor and dissertation committee in their second semester of the program. The dissertation consists of a minimum 12 hours of comprehensive qualitative or quantitative research on an agreed-upon topic in the field of rehabilitation counseling and working with persons with disabilities.
 Prerequisites: all coursework

Interdisciplinary Science

SCIE 6301
Integrated Science Concepts [3-0]
as scheduled

Students in this course will investigate many of the basic concepts in biology, chemistry and physics that undergird the natural sciences. As a result of understanding these concepts, students will be able to apply an integrated, interdisciplinary approach to solve science problems and communicate scientific ideas. May be repeated for credit if the topic is different.

SCIE 6302
Science and Technology in Society [3-0]
as scheduled

This course will assess scientific and technological developments and their consequences and the ethics and public policy decisions that face humankind. May be repeated for credit if the topic is different.

SCIE 6303
Recent Developments in Applied Science [3-0]
as scheduled

This course addresses recent developments in the natural sciences. Specific topics will vary based on the needs of students. Course may be repeated for credit if the topic is different.

Sociology

SOCI 6300
Graduate Statistics [3-0]
as scheduled

Advanced statistical methods with emphasis on higher levels of ANOVA, multiple correlation and regression, factor and path analysis. The course involves the utilization of social science computer programs in the analysis of large-scale survey data.

Prerequisite: Three hours of undergraduate statistics or consent of instructor.

SOCI 6301
Graduate Sociological Theory [3-0]
as scheduled

Examination of selected classical and contemporary sociological theories. Prerequisite: Three hours of undergraduate sociological theory or consent of instructor.

SOCI 6302
Graduate Research Methods [3-0]
as scheduled

This course focuses on the problems and issues of survey research. Topics such as the formulation of research design, instrumentation, descriptive and exploratory research, cross-sectional and longitudinal methods, sampling inductive and deductive logic, unit of analysis and indexes and scales will be explored. Prerequisites: Sociology 6300 and 6301 or equivalent.

SOCI 6304
Graduate Research Analysis [3-0]
as scheduled

This course is designed to help students incorporate material from key courses and seminars from the Sociology Master's Program into a research analysis project. This course provides mentoring and technical assistance to include how to select a research topic, formulate a problem statement and orient it to at least one sub-field of sociology, review related literature, choose a research method, describe the data analytic procedures, discuss results and complete a research analysis paper.

Prerequisites: Sociology 6300, 6301, 6302 and 6303.

SOCI 6310
Social Change [3-0]
as scheduled

This seminar provides graduate students the opportunity to acquire a background in the dynamic and growing subdiscipline of social change. In addition, this topic allows students to pursue a variety of individual interests within the broader context of studying social change. Also, the study of social change allows students to make a direct connection between theory and methods.

SOCI 6315
Graduate Research Topics [3-0]
as scheduled

Graduate seminar is devoted to investigative analysis and discussion of significant topics in contemporary sociology. Topics include organization, stratification, deviance, demography, social psychology, family, education and urbanization. May be repeated for a maximum of nine hours credit as topics vary.

SOCI 6320
Survey of Graduate Sociology [3-0]
as scheduled

Graduate seminar devoted to investigation, analysis and discussion of significant aspects of contemporary sociology and sociological theory. Intended as an overview of graduate-level sociology.

SOCI 6325
Advanced Sociology of Sports [3-0]
as scheduled

Diverse sociological approaches will be applied to sporting issues. The course has a historical component by looking at the development of Olympic sports. We will use biographies of athletes to study social change, change in the level of technology and to see how this change impacted various aspects of sports. Some latest research evidence from scientific and scholarly journals will be presented to look at the trends in contemporary social issues in sports. The issues of drugs, sexism and racism in sports will also be explored.

SOCI 6340
Health Research and Policy [3-0]
as scheduled
 Health policy is examined from a cross-cultural perspective. Emphasis is given to systematic comparisons among various health policy models in different countries, e.g., fee for service, socialized medicine, etc. Research methods employed in health-related studies, e.g., epidemiology, are introduced. Grant writing skills for health-related research are emphasized.

SOCI 6341
Health or Aging Topics [3-0]
as scheduled
 Advanced issues in health and/or aging with special emphasis on epidemiology, methods, demography and theory. Emphasis is also given to ethnicity and health delivery systems. May be repeated for a maximum of nine hours credit as topics vary.

SOCI 6344
Social Demography [3-0]
as scheduled
 1. To acquaint students with the major demographic perspectives on fertility, morality, and migration transitions.
 2. To introduce the basic demographic methods such as the measurements of mortality, fertility and migration, and their calculation through readings, lecture, videos, in-class discussions, a mid-term exam and an independent research paper and its presentation. Students are expected to use the demographic perspectives/methods they have learned from this course to explain the demographic transition in the U.S. and the world and to have a better understanding of some of the key demographic issues in the U.S./Mexico border region.

SOCI 6345
Sociology of Poverty [3-0]
as scheduled
 This graduate seminar focuses on the major structural causes of poverty and their social policy solutions. Correlates of poverty, including health, housing, educational attainment, transportation and political participation are also closely analyzed. While the focus of this seminar is the U.S.-Mexico borderlands, with special emphasis on the impact of immigration and maquiladoras, patterns and trends in global poverty are also examined.
 Prerequisite: Consent of instructor.

SOCI 6350
Advanced Sociology of Education [3-0]
as scheduled
 An analysis of the relationship of the educational institution to society and the patterns of order, change and conflict that emerge. Current issues, such as bureaucratization of schools and problems of minorities in the schools, are examined with regard to related sociological principles and theory. An applied project and report will be required.
 Prerequisite: Nine hours of sociology or consent of instructor.

SOCI 6354
The Family and Society [3-0]
as scheduled
 This course examines the institution of the family from a cross-cultural perspective, concentrating on problems like gender inequality, poverty and discrimination. The focus of the course is to obtain a better understanding of the family in the context of a changing society, especially in the border region.

SOCI 6358
Economic Sociology [3-0]
as scheduled
 This course provides an overview of sociological approaches to economic phenomena. Particular emphasis is given to the development and growth of the informal economy sector, not only within the United States, but globally. The timely topics of ethnic and immigrant incorporation into the labor market and ethnic entrepreneurial ventures are investigated from a framework that considers the influence of labor market networks, social resources, cultural capital and human capital.

SOCI 6362
Mexican-American Society [3-0]
as scheduled
 An analysis of history, culture, and structural relations of Mexican-Americans in U.S. society.

SOCI 6363
Borderlands and Inter-American Topics [3-0]
as scheduled
 An in-depth examination of theoretical and research issues related to the U.S.-Mexico Borderlands and to relationships among the other American republics. Topics will include demographics, culture, structure development and historical issues of the borderlands and the American republics. May be repeated for a maximum of nine hours credit as topics vary.

SOCI 6376
Directed Studies [3-0]
as scheduled
 Individual reading and/or research on a selected topic under the supervision of a faculty member with whom specific arrangements have been made. May be repeated when topics vary.

SOCI 7300
Thesis I [3-0]
 No credit assigned until thesis has been completed and filed.

SOCI 7301
Thesis II [3-0]
 No credit assigned until thesis has been filed.

SOCI 8306**Sociology of Education [3-0]
as scheduled**

A survey of theory and empirical research to the sociological study of education. This seminar provides an analysis of the relationship of education, as an institution, to society and its patterns of order, change and conflict. Specifically, the seminar will examine such processes as bureaucratization, professionalization, minority adjustment, and discrimination, and the problems such processes create in education. The seminar will also look at education in a cross-national context, examining system of education along the Texas-Mexico Border, in Mexico, and in post-industrial societies. A research component helping participants build towards a dissertation project will be required.

Social Work

SOCW 6300**Human Behavior and the Social Environment:
Individuals, Families and Small Groups [3-0]
as scheduled**

This course focuses on the reciprocal relationships between social environments and human behavior with an emphasis on individuals, families and small groups. Multiple theoretical and empirical perspectives are used to analyze the biological, psychological, social, cultural and spiritual dimensions of human development across the life span among diverse groups with an emphasis on at-risk and vulnerable populations. Attention is given to factors that contribute to risk and resilience and the role of social and economic justice in promoting human well-being.

SOCW 6301**Human Behavior and the Social Environment:
Social Institutions, Communities and Organizations [3-0]
as scheduled**

This course focuses on the reciprocal relationships between social environments and human behavior within large social systems. Theoretical and empirical perspectives are used to analyze the impact of the natural and physical environments, social structure, social institutions, communities and formal organizations on the well-being of diverse, at-risk and vulnerable populations. The course emphasizes processes of social change to challenge the inequitable distribution of power and resources.

SOCW 6302**Social Welfare Policy [3-0]
as scheduled**

Examination of the dimensions of social welfare policy, including conceptual frameworks for understanding policy formulation and the analysis of social policies. Special emphasis on policy issues that affect service delivery to families.

SOCW 6311**Social Work as a Profession [3-0]
as scheduled**

This course traces the philosophy and historical development of social work and presents a general overview of the social work profession. The basic knowledge, values, ethics, necessary for generalist social work practice, along with the many and varied roles and competencies in which social workers function across different fields of practice, will be presented. Students are introduced to social work's commitment to understand and appreciate human diversity; to understand and combat the dynamics and consequences of social and economic injustice; to achieve individual and collective social and economic justice for populations-at-risk. Prerequisites: Graduate standing with admission to the MSSW Program.

SOCW 6315**Social Work with Diverse Populations [3-0]
as scheduled**

This course prepares students for effective professional intervention in a diverse world, and provides an understanding of how discrimination and oppression operate to limit the life opportunities of members of minority, vulnerable, at risk, and disenfranchised groups. A conceptual framework for understanding diversity, discrimination and oppression is presented and used to understand discrimination based on factors such as race, ethnicity, social class, gender, and sexual orientation. Selected theoretical perspectives are used to critically analyze the manifestations of discrimination and oppression and their impact on affected populations. Social world's responses to discrimination and inequality, including strategies for intervention, are also examined.

SOCW 6321**Generalist Social Work Practice I [3-0]
as scheduled**

The course is an introductory course in direct practice methods and skills of social work intervention with individuals. Attention is given to the historic development of social work practice, the nature and application of social work values and ethical principles in practice, the theoretical frameworks of helping methods and the helping process of assessment, planning, intervention, termination and evaluation. Emphasis is on a generalist and ecosystems approach.

Prerequisites: Graduate standing with admission to the MSSW Program and/or permission of the instructor.

SOCW 6322**Generalist Social Work Practice II [3-0]
as scheduled**

This course presents a systems-ecological perspective on social work practice with families and small groups. The course emphasizes using both identified strengths and evidence-based approaches to working with clients. Students will have the opportunity to learn skills and apply knowledge and ethics to case material. Prerequisite: SOCW 6321.

SOCW 6323

Generalist Social Work Practice III as scheduled [3-0]

This course is designed to help students understand communities and the knowledge bases of social work generalist practice for interventions at this level. It provides an opportunity to explore selected macro models of practice and learn about human service organizations, which often serve as an immediate context for community practice. Prerequisites: Graduate standing with admission to the MSSW Program and SOCW 6321 taken concurrently with SOCW 6670 or SOCW 6371.

SOCW 6330

Advanced Family Practice I as scheduled [3-0]

This course, which is the first of two family practice courses, focuses on theories and evidence-based practice models for working with populations-at-risk. Family practice models are critiqued with respect to their efficacy for work with Latinos. The course builds on a generalist foundation, which includes a theoretical framework for working with families. Prerequisites: SOCW 6322, completion of MSSW foundation curriculum or admission into the 33-hour program (advanced standing).

SOCW 6331

Advanced Family Practice II as scheduled [3-0]

This course is taken concurrently with the concentration internship (SOCW 6375 or SOCW 6975) and focuses on the application of evidence-based family practice models with populations-at-risk. This entails formulating family assessments, developing treatment plans, establishing therapeutic relationships, applying intervention strategies and evaluating outcomes using relevant family therapy approaches that can also be adapted for work with couples and individual clients. Prerequisites: SOCW 6330 Advanced Family Practice I.

SOCW 6332

Social Work Practice with Latinos as scheduled [3-0]

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 as scheduled [3-0]

This course examines diverse ways to assess mental health functioning with an emphasis on understanding, analyzing and assessing mental disorders and formulating treatment plans according to the Diagnostic and Statistical Manual of Mental Disorders (latest edition). Attention is given to the significance of gender, race and ethnicity, age, sexual orientation and culture in assessing mental health and

mental disorders. Assessment models are analyzed in terms of their consideration of biological, psychological, social, cultural and spiritual aspects of human behavior. Coping strategies, adaptation and resiliency are addressed in the assessment process and a strengths-based perspective is used in formulating treatment plans. Attention is also given to the role of psychopharmacology in treatment. Criticisms and debates regarding the DSM are addressed.

Prerequisites: Completion of foundation curriculum or admission into advanced standing program.

SOCW 6336

Advanced Macro Assessment as scheduled [3-0]

A variety of methods to assess macro social systems are studied and experiences are provided to develop macro assessment skills. This includes the logic frameworks for assessment, organizational assessment and use of standardized measures for documenting organizational functioning. The course teaches community asset mapping and traditional community needs assessment methods. Prerequisite: Completion of foundation curriculum or admission and advanced standing

SOCW 6340

Advanced SW Practice with Organizations as scheduled [3-0]

Students gain advanced skills in organizational administration and management. Organizational assessment, human resources development, financial and board management, fund raising, policy planning and development, project management, and program evaluation are addressed. Students explore “use of self” as they develop leadership skills and a commitment to excellence necessary for strengthening agencies and improving human services critically needed in the Border Region of South Texas and beyond. Prerequisite: Completion of foundation curriculum or admission into advanced standing.

SOCW 6341

Advanced SW Practice with Communities as scheduled [3-0]

Students gain advanced skills in community organizing and social advocacy. Community assessment, volunteer management, fund raising, campaign management, networking and project management are addressed. Students will continue to explore their “use of self” as they further develop the leadership skills necessary to strengthen at-risk Latino community groups in the Border Region of South Texas and beyond. SOCW 6341 taken concurrently with SOCW 6379.

SOCW 6342
Advanced Policy Analysis and Development [3-0]
as scheduled

This course provides advanced skills in policy formulation, analysis, evaluation, advocacy, social marketing, lobbying, international development policy, and social action mobilization.

Prerequisite: Completion of foundation curriculum or admission into advanced standing.

SOCW 6350
Advanced SW Practice with Individuals [3-0]
as scheduled

This course focuses on knowledge and skills needed for advanced clinical social work practice with individual clients. Emphasis is given to the therapeutic process, empowerment and strengths perspectives, and clinical strategies for change. A variety of therapeutic models are examined with attention given to their efficacy for work with Latinos and vulnerable and at-risk populations.

Prerequisite: Completion of foundation curriculum or admission into advanced standing.

SOCW 6351
Advanced SW Practice with Groups [3-0]
as scheduled

Emphasis is on the use of group dynamics and techniques to treat mental, emotional, and behavioral disorders, conditions and addictions.

Prerequisite: Completion of foundation curriculum or admission into advanced standing.

SOCW 6360
Children's Mental Health [3-0]
as scheduled

This course presents a systems approach to children's mental health that includes theory, research, policy and practice perspectives. There is an emphasis on strength-based assessment and empirically-based interventions to help children with mental health concerns and their families.

Prerequisite: Graduate status.

SOCW 6370
Field Practicum I [3-0]
as scheduled

This course, which is the first of two foundation internships, requires completion of 200 clock hours in an approved field setting which prepares students for generalist social work practice.

Prerequisite: Approval of the Office of Field Education and completion of SOCW 6321, 6300 and 6311.

SOCW 6371
Field Practicum [3-0]
as scheduled

This course, which is a continuation of the first internship experience (SOCW 6370), requires completion of 200 clock hours in an approved field setting which prepares students for generalist social work practice. This course is taken concurrently with SOCW 6323.

Prerequisites: Approval by the Office of Field Education and completion of SOCW 6321, 6300, 6301, 6302, 6381, 6311 and 6322.

SOCW 6376
Clinical Practicum
as scheduled

This practicum course requires completion of 250 clock hours in an approved field setting which prepares interns for family focused practice with Latino individuals and families. Course may be taken concurrently with SOCW 6377.

Prerequisites: Approval by the Office of Field Education and completion of SOCW 6330, 6332, 6335, 6338.

SOCW 6377
Clinical Practicum
as scheduled

This practicum course requires completion of 250 clock hours in an approved field setting which prepares interns for family focused practice with Latino individuals and families. SOCW 6376 and 6377 may be taken concurrently or SOCW 6376 can be taken first, followed by SOCW 6377. SOCW 6377 must be taken concurrently with SOCW 6331.

Prerequisites: Approval by the Office of Field Education and completion of SOCW 6330, 6332, 6335, 6338; any outstanding courses must be taken concurrently with this course.

SOCW 6378
Macro Practicum [3-0]
as scheduled

This practicum course requires completion of 250 clock hours in an approved field setting, which prepares interns for community practice and administration. Course may be taken concurrently with the second internship course (SOCW 6379).

Prerequisites: Approval by the Office of Field Education.

SOCW 6379
Macro Practicum [3-0]
as scheduled

This practicum course requires completion of 250 clock hours in an approved field setting, which prepares Interns for macro practice. SOCW 6379 may be taken concurrently with SOCW 6378 or after completing SOCW 6378. SOCW 6379 must be taken concurrently with SOCW 6341. Prerequisites: SOCW 6315, 6336, & 6340; any outstanding courses which are required for graduation must be taken concurrently with this course.

SOCW 6380
Accountability and Evaluation in Macro Practice [3-0]
as scheduled

Emphasis on processes for monitoring and evaluating for evidence-based programming.

Prerequisite: Completion of foundation curriculum or admission into advanced standing.

SOCW 6381
Research Designs and Applications [3-0]
as scheduled

Examination of the various scientific methods for research, with special attention upon survey research methodology, beginning practice assessment and the statistical application of related procedures, including correlations, T-test, Chi Square, analysis of variance and the visual presentation of data.

SOCW 6383
Directed Studies
as scheduled

Independent study designed to provide an opportunity for students to pursue directed readings or participate in research or special projects under faculty supervision.

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 6396
Gerontological Social Work [3-0]
as scheduled

Theory and knowledge for practice with older adults and their families. Content addressing family empowerment, advocacy, networking, accessing of services, family dynamics and caregiving, with special emphasis on the development of practice skills to work with older adults and their families toward fostering maximum independence of the elderly. Prerequisite: Completion of foundation curriculum or admission into advanced standing program.

SOCW 6397
Spirituality and Social Work [3-0]
as scheduled

This course examines perspectives on human well being within diverse spiritual and religious traditions; models of spiritual development; the role of spirituality and religion in fostering well-being or contributing to the oppression of diverse, at risk, and vulnerable populations; and values and ethics for spiritually sensitive practice. Tools for spiritual assessment and spiritually-based interventions are explored.

SOCW 6399
Special Topics in Social Work Practice [3-0]
as scheduled

Examination of special topics in social work practice. Prerequisite: Approval of faculty advisor and department chair.

SOCW 6670
Field Practicum I [6-0]
as scheduled

This foundation internship course requires completion of 400 clock hours in an approved field setting, which prepares students for generalist social work practice. Prerequisites: Approval by the Office of Field Education and completion of SOCW 6321, 6300, 6301, 6302, 6381, 6311 and 6322. Any outstanding foundations courses, along with SOCW 6323, must be taken concurrently with this course (SOCW 6670).

Spanish

SPAN 6300
Bibliography and Research Methods [3-0]
as scheduled

A study of research methods and major literary and linguistics sources. This course will culminate with the successful completion of a research project.

SPAN 6301
Fundamentals of Spanish Linguistics [3-0]
as scheduled

Introduces students to fundamental issues in the field of Spanish linguistics and increases awareness of the processes involved in linguistic analysis and theory building. Covers topics in Spanish phonology, Spanish morphology, Spanish syntax and pragmatics and Spanish sociolinguistics.

SPAN 6302
Literary Criticism and Cultural Theory [3-0]
as scheduled

Covers the main theoretical approaches to literary and cultural phenomenon in their textual and contextual dimensions. Analyzes contributions from Aristotle to the present giving special attention to the critical approaches of the 20th and 21st centuries.

SPAN 6307 [3-0]
Advanced Spanish Grammar and Composition
for the Classroom Teacher
as scheduled

An examination of the Spanish language concerns of public educators as applicable to the elementary classroom. Skills and knowledge in basic communication, its theoretical principles and the varieties of language function and style in the school and communities are elements of this study. A strong application to the Spanish of the bilingual classroom is stressed.

**SPAN 6313
History of the Spanish Language [3-0]
as scheduled**

A detailed study of the evolution of the Spanish language from Latin to contemporary Spanish.

**SPAN 6339
Special Studies in Spanish-American Literature [3-0]
as scheduled**

Special topics from the field of Spanish-American literature. This course may be taken three times as the topic varies. Prerequisite: Graduate standing.

**SPAN 6341
Special Studies in Spanish Literature [3-0]
as scheduled**

Special topics from the field of Spanish literature. This course may be taken three times as the topic varies. Prerequisite: Graduate standing.

**SPAN 6344
Problems and Issues Related to Language [3-0]
as scheduled**

An examination of Spanish historical linguistics, Hispanic phonology, Spanish-English contrastive analysis and Spanish dialectology. Selected topics on language psychology and acquisition may be discussed. Can be repeated up to three times as topics vary. Prerequisite: Graduate standing.

**SPAN 6345
Latino Literature in the U.S. [3-0]
as scheduled**

In this course students will read representative works of Puerto Rican, Cuban and Chicano writers in the United States. Students will explore issues of culture, ethnicity and identity in the works of Latino writers writing in Spanish. Possible topics include: Chicano Literature, Cuban-American Literature, Latina Literature and Chicano Popular Culture. Can be repeated up to three times as the topic changes.

**SPAN 6346
Special Studies in Spanish Civilization [3-0]
as scheduled**

An examination of the culture and lifestyle of the Spanish people with emphasis on the historical, intellectual, artistic and social development of contemporary Spain. Readings, discussions and audio-visual materials will be presented and viewed. Prerequisite: Graduate standing.

**SPAN 6347
Special Studies in Grammar and Composition [3-0]
as scheduled**

An intensive study of Spanish grammar with special work on problem areas such as mood, syntax, orthography and punctuation. This course will also offer the opportunity of improving Spanish writing skills through practice, of developing an awareness of style and of making the student conscious of the differences between the written and spoken language.

Prerequisite: Graduate standing.

**SPAN 6348 [3-0]
Language Access Policy and Planning In
Health Services
as scheduled**

Review of major policies relating to language in health care, comparative analysis of major efforts undertaken to implement language-in-healthcare policy in health services organizations and comparisons of methods of language assistance delivery and their relation to quality health services.

**SPAN 6350 [3-0]
Special Topics in Spanish Linguistics
as scheduled**

Special topics oriented to the field of Spanish linguistics (Applied Linguistics, Sociolinguistics, Psycholinguistics). Can be repeated up to three times as topics vary.

**SPAN 6351 [3-0]
Spanish Peninsular Poetry and Drama for AP Teachers
as scheduled**

This course will analyze the poetic and dramatic works required for Advanced Placement Literature Courses written by Spanish Peninsular authors from the Middle Ages to the present.

**SPAN 6352 [3-0]
Latin American Prose for AP Teachers
as scheduled**

This course will analyze the prose works required for Advanced Placement Literature Courses written by Latin American authors from the colonial period to the present.

**SPAN 6353 [3-0]
Latin American Poetry and Drama for
AP Teachers
as scheduled**

This course will analyze the dramatic and poetic works required for Advanced Placement Literature Courses written by Latin American authors from the colonial period to the present.

**SPAN 6354 [3-0]
Spanish Peninsular Prose for AP Teachers
as scheduled**

This course will analyze the prose works required for Advanced Placement Literature Courses written by Spanish Peninsular authors from the Middle Ages to the present.

**SPAN 6393 [1-0]
Directed Readings in Hispanic Literature
and Linguistics
as scheduled**

Independent study of a particular facet of Hispanic Literature or linguistics to be determined in consultation with a faculty advisor and approved by the graduate adviser.

SPAN 7100 [1-0]
Directed Research in Languages, Literatures and Cultures as scheduled

Individual research or creative project in language, literature or culture under the supervision of a member of the graduate faculty. The required outcome is an original work of substantive quality.

SPAN 7300
Thesis*

SPAN 7301
Thesis*

*Students must be aware that the above courses cannot be taken during the same semester.

Other

UNIV 6301 [3-0]
Online Teaching for the Adult Learner as scheduled

Research, theory and principles of adult learning and development are explored with a specific emphasis on adult learners in the online environment. Application of theory is presented and analyzed along with research findings and practices in the planning of adult education and training curricula for the online environment.



Glossary of Terms

[3-0] or [3-0-12] (for example)

Regularly scheduled classes at UT Pan American have prescribed contact hours (the actual number of hours each week a student will spend in lecture, laboratory and/or clinical sessions for that class) that are shown in brackets to the right of the course title in each department's course listings. The first number denotes the number of lecture contact hours, the second number denotes the laboratory contact hours, and a third number, if included, is the number of clinical contact hours. These numbers apply to the courses as they are scheduled for the fall or spring semester. Summer weekly contact hours will be adjusted to compensate for the shorter duration of the semester. Examples:

[3-0] The class will have three hours of lecture per week.

[2-3] The class will meet for two hours of lecture and three hours of laboratory per week.

[3-0-12] The class will have three hours of lecture and 12 hours of clinical experience each week.

Accreditation — College or University

A college or university in the United States is considered accredited if it is recognized by one of the following regional accrediting agencies:

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

Accreditation — High School

A high school in Texas is considered accredited if it is recognized by the Texas Education Agency (TEA). High schools outside of Texas are considered accredited if they are recognized by their state accreditation agency.

Advanced-level Work

Courses numbered 3000-4000 are advanced or upper-division courses. Courses numbered 3000 are designated as junior level, and 4000-numbered courses are designated as senior level. Approval of the department chair or dean of the college is required for enrollment in advanced-level courses by students who have not reached junior standing. Students who have not passed all portions of the TASP exam may not enroll in any advanced-level coursework if, upon completion of the work, the student would have completed 60 or more hours.

Attempted Hours

Attempted hours are the total number of hours for courses that a student has attempted, including failing grades such as "F," "DF" and "WF." Repeated courses, failing grades over seven years old, incomplete grades and credit (CR) grades are not included in attempted hours at the undergraduate level.

Census Date

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

Common Course Number

If the course is generally equivalent to other lower-division courses taught at universities and community colleges within the state, the Texas Common Course Number is shown in the course description for informational purposes. See page 27 for further information.

Contact Hours

Number of regularly scheduled hours per week that a lecture, laboratory or clinical experience is scheduled to meet during a long semester. (See [3-0] above.)

Coursework in Residence

Coursework in residence refers to coursework actually completed on the UT Pan American campus. Extension, credit by examination, and transfer credit may not be used to complete the residency requirement for graduation.

Dean's List

After each regular semester, a dean's list is published listing the names of all undergraduate students enrolled in a minimum of 12 college-level hours who have a grade point average of 3.5 or better for courses taken that semester. A dean's list is not produced during the summer sessions.

Designated Electives

Students have choices within the category of designated electives but must complete the required number of courses or hours from those specified.

Elective Hours

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

Entering Freshman

A student admitted as an entering freshman has not attended any accredited college or university.

Full-time Graduate

A graduate student who is enrolled for at least nine hours of credit during a regular semester, or a total of six hours of credit during the summer sessions, is considered fulltime.

Full-time Undergraduate

An undergraduate student who is enrolled for at least 12 semester hours during a regular semester, or at least six hours of credit during a summer session, is considered fulltime.

Half-time Graduate

A half-time graduate student is one who is enrolled for six to eight hours of credit during the regular semester or three hours of graduate credit during a summer session.

Half-time Undergraduate

A half-time undergraduate student is one who is enrolled for six to 11 semester hours during the regular semester or three hours of credit during a summer session.

Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for nine to 11 semester hours during the regular semester.

Hours

College credit at UT Pan American is measured in terms of semester credit hours. Ordinarily, a class that meets one 50-minute period per week for a regular semester will carry a credit of one hour. The majority of classes meet three periods or their equivalent each week and carry three hours of credit. Two or three laboratory hours per week are usually required for one hour of laboratory credit.

Leveling Work

Coursework designed to eliminate deficiencies in educational background of students admitted or being considered for admission to a graduate program is called leveling work. (Graduate programs are designed on the assumption that students have a common body of knowledge.)

Maximum Course Load

The maximum load for a full-time undergraduate student is 18 hours in a regular semester and 15 for each summer session. Students may be permitted to enroll for additional hours with the approval of his or her undergraduate advisor and the dean of the college.

MTEL

The MTEL (Michigan Test of English Language) is one of the two major English-language proficiency tests for non-native speakers of English. The other exam is the TOEFL (Test of English as a Foreign Language). Only the TOEFL is administered at UT Pan American.

Prerequisite

A course listed with a prerequisite means that specified requirements must be met before one can enroll in the course. Specific prerequisites are listed in course descriptions.

Probation

Students are placed on scholastic probation when they fail to achieve the required overall grade point average. Students may be placed on disciplinary probation for infraction of any University regulation. In either case, they must satisfy specific requirements before they can return to a non-probationary status. For further information, refer to the section in this catalog on scholastic probation and suspension on page 67 for undergraduate students and to the Graduate Catalog for graduate students. The Student Conduct and Disciplinary Code is discussed on page 87.

Regular Semester

A regular semester is any 15-week fall or spring semester.

Returning Student

A student whose last institution attended was UT Pan American is admitted as a returning student after an absence of at least one regular semester.

Semester (see Regular Semester)

Special Student

A student holding at least a bachelor's degree from an accredited institution who does not wish to enter the graduate school may be permitted to register as a special student in one of the undergraduate colleges and is subject to all rules and regulations of that college.

Special Graduate Student

Special graduate students are those holding a master's degree from an accredited institution who do not wish to enter a graduate program but wish to attend courses.

Summer Session

As part of its regular program, the University offers two summer sessions, each five-and-one-half weeks long.

Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for nine-11 semester hours during the regular semester.

Transfer Students

Students admitted as transfer students have last attended an accredited college or university other than, or in addition to, UT Pan American.

Upper Division (see Advanced-level Work)

Faculty Listing

Abebe, Michael Alemayehu, Assistant Professor, Department of Management; Management, Ph.D., Southern Illinois University Carvondale, 2008.

Abraham, John P., Professor, Department of Computer Science; Networking; Ed.D., University of Houston, 1986.

Acevedo Jr., Baltazar A., Professor, Department of Educational Leadership; Director, Center for Applied Research in Education; Southwest Texas State University, 1969; MA, Western Michigan University, 1974; Ph.D., The University of Texas at Austin, 1979.

Adair, Penelope A., Associate Professor, Department of History and Philosophy; History, Ph.D., University of California-Santa Barbara, 1993.

Agbese, Aje-Ori, Assistant Professor, Department of Communication; Writing for the Mass Media, Copy Editing, Mass Media Law and Ethics, Intercultural Communication; Ph.D., Bowling Green State, 2004.

Aguilera, Lydia, Clinical Assistant Professor, Cooperative Program in Pharmacy; Pharm. D., University of Florida, 2008.

Aguirre, Maria Teresa, Clinical Assistant Professor, Department of Clinical Lab Science; MS, Biology, The University of Texas-Brownsville, 2008

Akindayomi, Akinloye, Assistant Professor, Department of Accounting and Business Law; Ph.D., University of Calgary, 2006.

Ahluwalia, Punit, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Georgia State University, 2006.

Ahmad, Hassan, Professor, Department of Chemistry; Biochemistry, Ph.D., Aligarh Muslim University, 1983.

Ahn, Seokyoung, Assistant Professor, Department of Mechanical Engineering; Mechanics of Solids, Motion Element Design, Modern Control Systems, Introduction to Laser Material Processing, Optimal Control; Ph.D., The University of Texas at Austin, 2005.

Aldridge, James W., Jr., Professor, Department of Psychology and Anthropology; Psychology, Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

Allen, David, Dean, College of Engineering and Computer Science and Professor; Ph.D., Aerospace Engineering, Texas A&M University, 1980

Alfaro, Edna Crystal, Assistant Professor, Department of Psychology and Anthropology, Ph.D., The University of Texas-Pan American, 2009.

Alianak, Sonia, Associate Professor, Department of Political Science; Comparative Government, International Relations, American Government; Ph.D., The University of Texas at Austin, 1987.

Almaguer, Isela, Associate Professor, Department of Curriculum and Instruction; Curriculum and Instruction, Emphasis on Teacher Education; Ed.D., University of Houston, 2003.

Alvarado, Sylvia Michelle, Lecturer, Department of Undergraduate Studies, MS, Texas A&M University, College Station, 1997.

Alvarado, Victor, Professor, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Alvarez Martinez, Stephanie, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature, Ph.D., University of Oklahoma, 2006.

Ambriz, Frank, Program Chair and Assistant Professor, Physician Assistant Studies Program; Pediatrics, Pulmonology, Internal Medicine; BS, The University of Texas Medical Branch-Galveston, 1979.

Amorim, George Jaques, Lecturer, Department of Music and Dance, Doctoral of Music and Dance, University of North Texas, Master of Music in Double Bass Performance, 2003.

Anabila, Andrew A., Assistant Professor, Department of Accounting and Business Law, Ph.D., Columbia University, 2003.

Andaverdi, Saul, Lecturer, Department of Mathematics, Mathematics, Master in Mathematics, The University of Texas-Pan American, 2007.

Anderson, Erik Ryan, Lecturer, Department of History and Philosophy; Philosophy, MA in Philosophy, A&M University, 2001.

Anderson-Mejias, Pamela, Professor and Department Chair, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.

Andoh-Baidoo, Francis, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Commonwealth University, 2006.

Ann, Eun, Lecturer, Department of Math; M.S., Iowa State University, 2006

Anshen, David W., Assistant Professor, Department of English; Ph.D., State University of New York at Stony Brook, 2004.

Appiahene-Gyamfi, Joseph, Associate Professor, Department of Criminal Justice; Criminology, International Criminal Justice, Corrections; Ph.D., Simon Fraser University, 1999.

Ardalani, Elvia G., Associate Professor, Department of Modern Languages and Literature; Spanish; Ed.D., Texas A&I University-Kingsville, 1990.

Arizmendi, Lydia González, Associate Professor, Department of Social Work; Generalist Social Work Practice and Marco Practice; J.D., University of California-Davis, 1978; MSW, University of Michigan-Ann Arbor, 1973.

Arredondo, Sonja L., Lecturer, Department of Social Work; MAS, Our Lady of the Lake University, 1974.

Asgharian, Laleh, Lecturer, Department of Science and Engineering; MS, The University of Texas Pan-American, 2006.

Atamian, Rubik, Associate Professor, Department of Accounting and Business Law; Accounting; Ph.D., The University of Texas at Austin, 1984.

Ayala, Kara J., Assistant Professor, Department of Communication Sciences and Disorders, Ph.D., Northwestern University, 2005.

Ayala, Marion, Lecturer, Department of Business Administration; MSA, The University of Texas-Pan American, 2006.

Azarbayejani, Mohammad, Assistant Professor, Department of Mechanical Engineering, Ph.D., University of New Mexico, 2009.

Baik, Ellen R., Assistant Professor, Department of Political Science, Ph.D., State University of New York at Stony Brook, 2004.

Baker, Willard R., Clinical Assistant Professor, Physician Assistant Studies Program, MMS, PA-C, Alderson-Broadus College, Philippi, West Virginia, 1999.

Balci, Tamer, Assistant Professor, Department of History and Philosophy; History, Ph.D. in History, Claremont Graduate University, 2007.

Balogh, Andra's, Associate Professor, Department of Mathematics; Mathematics; Ph.D., Texas Tech University, 1997.

Banatoski, Edward, Lecturer, Department of Electrical Engineering; Ph.D., The University of Texas at Arlington, 2000.

Banik, Bimal K., Professor, Department of Chemistry; Organic Chemistry; Ph.D., Jadavpur University-India.

Barrera, Iran, Assistant Professor, Department of Social Work, Ph.D., The University of Texas at Arlington, 2008

Bautista, Beatriz (Betty), Assistant Professor, Department of Nursing; MSN, University of South Carolina-Columbia, 1990.

Becker-Chambless, Amy, Lecturer, Department of English, Ph.D. Texas Tech University, 2006.

Behar, Stella, Professor, Department of Modern Languages and Literature; French; Ph.D., University of California at Los Angeles, 1991.

Belau, Linda, Associate Professor, Department of English; Philosophy, Literature, and the Theory of Criticism; Ph.D., State University of New York at Binghamton, 2000.

Ben Ghalia, Mounir, Associate Professor, Department of Electrical Engineering; Systems Modeling and Robust Control, Robotics, Neural Networks, Knowledge-Based Systems; Ph.D., Tennessee Technological University, 1995.

Course Descriptions & Faculty

Benham, Grant, Assistant Dean, College of Social and Behavioral Sciences and Associate Professor, Department of Psychology and Anthropology; Psychology; Ph.D., The University of Tennessee-Knoxville, 2000.

Bernard, John E., Professor, Department of Mathematics; Mathematics Education; Ph.D., The University of Texas at Austin, 1978.

Bhat, Narayan, Professor and Chair, Department of Chemistry; Organic Chemistry; Ph.D., University of Poona-India, 1982.

Bhatta, Dambaru D., Associate Professor, Department of Mathematics; Ph.D., Dalhousie University-Canada, 1995.

Bhatti, Muhammad Idrees, Professor, Department of Physics and Geology; Atomic Physics; Ph.D., University of Notre Dame, 1987.

Birk, Megan Elizabeth, Assistant Professor, Department of History and Philosophy; History, Ph.D., Purdue University, 2008.

Blankenship, Charlene J., Associate Professor, Department of Rehabilitation Services; Ph.D., Southern Illinois University.

Borrego, Espiridion A., Associate Professor, Public Administration Program; Ph.D., University of Southern California.

Bose, Ramendra, Assistant Professor, Department of Mathematics, Applied Mathematics, Ph.D., State University of New York, 1973

Bose, Subhash C., Beecherl Endowed Professor, Manufacturing Engineering Department; Process and Product Design, Computer-Aided Manufacturing, Robotics and Control; Ph.D., The University of Wisconsin-Madison, 1987.

Boudreau, James W., Assistant Professor, Department of Economics and Finance; Economics, Ph.D. University of Connecticut, 2009.

Bowe, George, Lecturer, Department of Criminal Justice; MA, Sam Houston University, 1975.

Bracken, Paul, Associate Professor, Department of Mathematics; Applied Mathematics; Ph.D., University of Waterloo, Ontario-Canada, 1995.

Bradley, Donald, Assistant Professor, Department of Occupational Therapy; Ph.D., Texas Women's University, 2009.

Bradley, Robert C., Assistant Professor, Department of Art, Ph.D., in Art History, Columbia University, 2005.

Braithwaite, Jean, Assistant Professor, Department of English.

Ph.D., University of Missouri, 2004.

Brazier, Pearl W., Associate Professor, Department of Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brickman, Stephanie J., Associate Professor and Chair, Department of Educational Psychology; Ph.D., University of Oklahoma, 1998.

Brown, Cynthia, Vice Provost for Graduate Studies; Professor, Department of Economics and Finance; Finance; Ph.D., The University of Texas-Pan American, 1998.

Brown, Danika M., Associate Professor, Department of English; Rhetoric, Composition; Ph.D., The University of Arizona, 2003.

Browne, Peter E., Associate Professor, Department of Modern Languages and Literature; Spanish; Ph.D., University of Nebraska-Lincoln, 1993.

Broz, William, Assistant Professor, Department of English; English Education; Ph.D., The University of Iowa, 1996.

Brush, Timothy, Professor, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Buckman, Kenneth L., Associate Professor and Director of Guerra Honors Program, Department of History and Philosophy; Philosophy, Continental Philosophy, Oriental Philosophy, Social Philosophy, 19th and 20th Century Philosophy; Ph.D., Southern Illinois University, 1990.

Bullard, Jim, Assistant Professor, Department of Chemistry, Ph.D., University of Montana, 1996.

Bustamante, Juan, Lecturer, Department of Sociology, MS, The University of Texas-Pan American, 2004.

Butcher, Jennifer, Assistant Professor, Department of Educational Leadership; Ph.D., Texas A&M University, 2009.

Butler, Alley C., Professor, Department of Manufacturing Engineering; Ph.D., Purdue University, 1992.

Cabrera, Fernando, Clinical Specialist, Department of Nursing; MSN, The University of Texas-Pan American, 2006.

Cameron, Edward T., Associate Professor, Department of English; Ph.D., State University of New York at Birmingham, 2000.

Campney, Brent MacDonald, Assistant Professor, Department of History and Philosophy; History, Ph.D., Emory University, 2007.

Canales, Patricia, Associate Professor, Cooperative Pharmacy Program; Pharm.D.; The University of Texas at Austin, 1995.

Cantú-Cabrera, Juana, Assistant Professor, Department of Nursing; MSN, The University of Texas Health Science Center-Houston, 1994.

Carlson, David, Assistant Professor, Department of History and Philosophy, Ph.D., University of North Carolina at Chapel Hill, 2007.

Carlson, Ralph, Professor, Department of Educational Psychology; Psychology, Quantitative Methods, Statistics, Theories of Personality; Ph.D., University of Houston, 1974.

Carren, David B., Assistant Professor, Department of Communication; TV/Theatre/Film; MFA, Spalding University Louisville, Kentucky.

Caruntu, Dumitru, Assistant Professor, Department of Mechanical Engineering, Ph.D., Politechnica University of Bucharest, 1999.

Casebeer, Cindy M., Assistant Professor, Department of Educational Psychology; Ph.D., University of Alabama-Tuscaloosa, 2006.

Castro, Veronica, Assistant Professor, Department of Educational Psychology; Ph.D., Texas A&M-Corpus Christi, 2005.

Cavazos, Alonzo, Professor, Department of Social Work; Clinical Social Work, Administration; Ed.D., University of Houston, 1994; MSSW, The University of Texas at Austin, 1975.

Chakraborty, Santanu, Assistant Professor, Department of Mathematics; Ph.D., Indian Statistical Institute, 2002.

Chandler, Karen, Assistant Dean, Associate Professor, College of Health Sciences and Human Services, Associate Professor and Program Coordinator, Clinical Laboratory Sciences Program; MT (ASCP), CLS(NCA), MA, Central Michigan University, 1983.

Chang, Yanrong, Assistant Professor, Department of Communication; Communication Studies. Ph.D., University of Iowa, 2002.

Charlton, Colin T., Assistant Professor, Department of English; Ph.D., Purdue University, 2005.

Charlton, Jonikka P., Assistant Professor, Department of English; Ph.D., Purdue University, 2005.

Chebotko, Artem V., Assistant Professor, Department of Computer Science, Ph.D., Wayne State University, 2008.

Chen, Haiwei, Associate Professor, Department of Economics and Finance; Finance, Ph.D., Emory University, 1998.

Chen, Roy Kuan-Yu, Assistant Professor, Department of Rehabilitation; MS, Michigan State University, 2006.

Chen, Zhixiang, Professor and Chair, Department of Computer Science; Theoretical Computer Science, Machine Learning and Data Mining; Ph.D., Boston University, 1996.

Chen, Xi, Assistant Professor, Department of Political Science; Ph.D., Planning, Governance and Globalization; Virginia Polytechnic Institute and State University, Blacksburg, Va., 2007.

Chipara, Dorina, Assistant Professor, Department of Physics and Geology, Ph.D., University of Bucharest, 1999.

Chipara, Mircea, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., Institute for Atomic Physics, 1996.

Choutapalli, Isaac, Assistant Professor, Department of Mechanical Engineering, Ph.D., Florida State University, 2007.

Christensen, Matthew J., Associate Professor, Department of English; Comparative Literature; Ph.D., University of California at Los Angeles, 2002.

Chu, Yul, Assistant Professor, Department of Electrical Engineering, Ph.D., University of British Columbia, 2007.

Coberly, Rebecca A., Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, Texas Tech University, 2009.

Cole, Deborah L., Assistant Professor, Department of English; Ph.D., University of Arizona-Tucson, 2004.

Contreras, Salvador, Assistant Professor, Department of Economics and Finance; Economics, Ph.D., Claremont University, 2007.

Contreras, Victoria, Professor, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Texas at Austin, 1989.

Corpuz, Edgar, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., Kansas State University, 2006.

Corpuz, Mai Aileen, Lecturer, Department of Curriculum and Instruction; MS, De La Salle University, 1998.

Cortes, Angelica, Associate Professor, Department of Marketing; Marketing; Ph.D., University at Albany-CT, 1997.

Cortez, Jose, Lecturer, Department of Physics and Geology; Ph.D., University of Michigan, Ann Arbor, Mich.

Course Descriptions & Faculty

Cortina, Maria Guadalupe, Associate Professor, Department of Modern Languages and Literature; Ph.D., University of Arizona, 1996.

Cox, Graham, Lecturer, History and Philosophy; History, Ph.D., University of Houston, 2008

Cripps, Cynthia, Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, University of Miami, 2006.

Crisafulli, Anthony, Professor, Department of Art; MFA, City University of New York, Hunter College, 2009.

Crossler, Robert Ernest, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Tech University, 2009.

Crown, Stephen W., Professor, Department of Mechanical Engineering; Mechanical Engineering; Ph.D., University of Colorado, 1993.

Croyle, Kristin, Associate Professor, Department of Psychology and Anthropology; Ph.D., The University of Montana, 2000.

Crutchfield, Ruth, Lecturer, Department of Communication Sciences and Disorders, MA, The University of Texas-Pan American, 1997.

Cruz, Gustavo, Lecturer, Department of Mathematics, MS, The University of Texas-Pan American, 2007.

Cummins, Amy, Assistant Professor, Department of English, Ph.D., University of Kansas,

Cunningham, Mark A., Associate Professor, Department of Physics and Geology; Physics; Ph.D., Yale University, 1982.

Curts, James B., Associate Professor and Chair, Department of Curriculum and Instruction; Ph.D., University of Wisconsin, 1985.

Dabrowski, Peter P., Associate Dean, College of Arts and Humanities, Professor, Department of Music and Dance; Valley Symphony Conductor; DMA, Northwestern University, 1998.

Dambreville, Laurence, Lecturer, Department of English. MA, The University of Texas Pan American, 2009.

Damianov, Damian, Assistant Professor, Department of Economics and Finance; Ph.D., University of Heidelberg, 2006.

Daniel, Clay L., Associate Professor, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark, Professor, Department of Criminal Justice; Police Administration, Police Issues, Research Methods;

Ph.D., The University of Texas at Arlington, 1989.

Darcy, John, Associate Dean, College of Business Administration and Associate Professor, Department of Accounting and Business Law; Ph.D., The University of Oklahoma, 2002.

Darsow, Fred, Associate Professor, Department of Music and Dance; Dance Choreography; MFA, Arizona State University, 1998.

Dávila, Alberto, Neuhaus Professor and Chair, Department of Economics and Finance; General Business, Economics; Ph.D., Iowa State University, 1982.

Davis, Richard, Associate Professor, Department of Music and Dance; Voice; DMA, Indiana University, 1985.

Davis, Virginia, Assistant Professor, Department of Music and Dance, Ph.D. in Music, University of Arizona, 2005.

Debnath, Lokenath, Professor, Department of Mathematics; Pure and Applied Mathematics, Mathematical Physics; Ph.D. (Pure Mathematics), University of Calcutta, 1965; Ph.D. (Applied Mathematics), University of London, 1967.

DeLassus, Phillip, Professor, Department of Chemistry; Physical Chemistry; Ph.D., The University of Chicago, 1972.

DeLeon, Leticia, Assistant Professor, Department of Curriculum and Instruction; Ed.D., University of Houston, 2005.

De los Santos, Miguel A., Associate Professor, Department of Educational Leadership; Educational Administration; Ph.D., The University of Texas at Austin, 1980.

De Souza, Carlos Roberto, Assistant Professor, Department of Art, Ph.D. in Art History, University of California, Santa Barbara, 2008.

Dearth, Daniel K., Associate Professor, Department of Criminal Justice; Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence; Ph.D., Sam Houston State University, 1984.

Dearth, Robert Keith, Assistant Professor, Department of Biology, Ph.D., Texas A&M University, 2003

Desai, Chintal Ajitbhai, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., The George Washington University, 2008.

Devanaboina, Madhavi, Lecturer, Department of Mathematics, MS, Texas A&M University, 2004.

DeYoe, Hudson, Professor, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.

Diaz, Hector L., Professor and Chair, Department of Social Work; Ph.D., University of Illinois at Chicago, 1995.

Diaz, Maria I., Assistant Professor, Department of Nursing; Ed.D., NOVA University, Fort Lauderdale, Florida, 1993.

Diaz, Sylvia, Lecturer, Department of Chemistry; MA, The University of Texas at Austin, 2000.

Diaz-Barriga, Miguel, Professor, Department of Psychology and Anthropology; Anthropology, Ph.D., Stanford University, 1991.

Dietrich, Gustavo G., Lecturer, Department of Computer Science; Programming Languages and Methodology; MS, Texas A&M University-Kingsville, 1988.

Dimakis, Nikolas, Associate Professor; Department of Physics and Geology; Ph.D., Illinois Institute of Technology-Chicago, 1997.

Dirrgil, Frank, Assistant Professor, Department of Biology, Ph.D., University of Connecticut, 1998.

Dominguez, Armando, Senior Lecturer, Department of Sociology; MS, The University of Texas-Pan American, 2002.

Dominguez, Sylvia M., Professor Emeritus, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Arizona, 1971.

Dong, Wenjie, Assistant Professor, Department of Electrical Engineering, Ph.D., University of California, 2009.

Donnell, William, Lecturer, Department of Mathematics, Ph.D., Texas Tech University, 1971.

Dorsey, Margaret E, Assistant Professor, Department of Psychology and Anthropology, Ph.D., Indiana University, 2002.

Ebaseh-Onofa, Benjamin O., Associate Professor, Department of Mathematics; Statistics; Ph.D., Texas A&M University, 1988.

Edionwe, Alexander O., Associate Professor, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of Nebraska-Lincoln, 1991.

Edwards, Robert J., Professor, Department of Biology; Ichthyology, Ecology, Population Biology; Ph.D., The University of Texas at Austin, 1980.

Egle, David L., Lecturer, Department of Computer Science; Numerical Analysis, Systems Programming, Computer Organization; MS, Texas A&M University, 1977.

Eisenman, Russell, Associate Professor, Department of Psychology and Anthropology; Clinical Psychology; Ph.D., The University of Georgia, 1966.

English, Linda Christine, Assistant Professor, Department of History and Philosophy, Ph.D., University of Oklahoma, 2005.

Eom, Minhee, Assistant Professor, Department of English; Ph.D., The University of Iowa, 2006.

Erdem, Orelia, Clinical Lab Specialist, Department of Nursing; MSN, Corpus Christi State University, 1989.

Ernst, Frederick A., Professor, College of Social and Behavioral Sciences, Professor, Department of Psychology and Anthropology; Ph.D., The Ohio State University, 1976.

Escamilla, Marianita, Lecturer, Department of English.

Escobari, Diego, Assistant Professor, Department of Economics and Finance, Ph.D. Texas A&M University, 2008.

Esquierdo, Jennifer J., Assistant Professor, Department of Curriculum and Instruction; Ph.D., Texas A&M University, College Station, 2006.

Estrada, Veronica L., Professor, Department of Curriculum and Instruction; Curriculum and Instruction Education; Ph.D., The Ohio State University, 1997.

Ethridge, Philip, Associate Professor, Department of Criminal Justice; Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law; Ph.D., Sam Houston State University, 1990.

Faraji, Bahram, Program Coordinator and Professor, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of California, 1982.

Farooqi, Mohammad, Ibrahim Husain, Clinical Assistant Professor, Physician Assistant Studies Program; BS, The University of Texas-Pan American, 2002.

Farooqui, Mohammed, Professor and Chair, Department of Biology; Physiology, Toxicology, Entomology, Cell Biology; Ph.D., University of Illinois, 1979.

Farris, Marcus, Assistant Professor, Department of Art, MFA, Texas Tech University-Commerce, 2006.

Farruggio, Peter, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of California-Berkley, 2004.

Fatehi, Mohammed, Lecturer, Department of Mathematics; Linear Algebra, Statistics; Ph.D., New Mexico State University, 1996.

Faubion, Michael L., Associate Professor, Department of History and Philosophy; History, Diplomate, Military and Environmental History; Ph.D., Texas Tech University, 1992.

Faulkes, Zen, Associate Professor, Department of Biology; Neurobiology and Ethnology; Ph.D., University of Victoria, 1996.

Faver, Catherine Ann, Professor, Department of Social Work; MSSW, The University of Texas at Arlington, 1975; Ph.D., University of Michigan, 1979.

Feldman, Janis B., Associate Professor, Department of Social Work; MSW, Hunter College, 1975; Ph.D., Barry University-Florida, 1997.

Feng, Bao-Feng, Associate Professor, Department of Mathematics; Applied Mathematics; Ph.D., Kyoto University, Japan, 2000.

Feng, Zhaosheng, Associate Professor, Department of Mathematics; Ph.D., Texas A&M University, 2000.

Feria, Teresa Patricia, Assistant Professor, Department of Biology, Ph.D., University of Missouri-St. Louis, 2007.

Field, Philip S., Professor, Department of Art; Printmaking, Painting, Aesthetics; MFA, Syracuse University, 1965.

Fielding, Cheryl, Associate Professor, Educational Psychology; Ph.D., Texas A&M University, 2000.

Finck, James W., Lecturer, Department of History and Philosophy; MA, Virginia Polytechnic Institute and State University, Blacksberg, VA, 2002.

Firat, Asim Fuat, Professor, Department of Marketing; Marketing; Ph.D., Northwestern University, 1978.

Fischer, Jerome M, Professor and Chair, Department of Rehabilitation, Ph.D., Southern Illinois University, 1992.

Fitzsimmons, Susan, Professor and Chair, Department of Art, MFA, Southern Illinois University, 1973

Flores, Shoney, Lecturer, Department of English; MFA, The University of Texas-Pan American, 2009.

Flores-Vela, Alma, Lecturer, Department of Nursing; MSN, The University of Texas-Pan American, 1998.

Foltz, Heinrich D., Professor and Chair, Department of Electrical Engineering; Ph.D., The University of Texas at Austin, 1993.

Fournier, Kimberly A., Assistant Professor, Department of Health and Kinesiology, Ph.D., University of Florida, 2008.

Fowler, Richard H., Professor, Department of Computer Science; Information Visualization and Interactive Systems; Ph.D., University of Houston, 1980.

Francis, Theron, Lecturer, Department of English; Ph.D., Purdue University, 2007.

Fredensborg, Brian, Assistant Professor, Department of Biology, Ph.D., University of Otago, 2005.

Freeman, Robert A., Professor and Chair, Department of Mechanical Engineering; Mechanical Engineering; Ph.D., University of Florida, 1985.

Freeman, Samuel, Associate Professor, Department of Political Science; Political Parties, U.S. Presidency, Congress, Foreign Policy; Ph.D., University of Kentucky, 1978.

Fu, Bin, Associate Professor, Department of Computer Science; Ph.D., Yale University, 1998.

Fuentes, Arturo A., Associate Professor, Department of Mechanical Engineering; Ph.D., Rice University, 1999.

Fuentes, Lilia A., Assistant Professor, Department of Nursing; Family Nurse Practitioner; MSN, The University of Texas-Pan American, 2001.

Galstyan, Anahit, Assistant Professor, Department of Mathematics; Ph.D., University of Cincinnati-Ohio, 2005.

Ganguli, Gouranga, Professor, Department of Accounting and Business Law; Accounting; CPA, CMA, CIA; Ph.D., The University of Mississippi, 1983.

Garcia, Criselda, Assistant Professor, Department of Curriculum and Instruction; Educational Administration, M.Ed., The University of Texas-Pan American, 2002.

Garcia, Carmela, Lecturer, Department of Modern Languages and Literature; Spanish; MAIS, Pan American University, 1986.

Garcia, Elizabeth, Lecturer, Department of Communication; BA, The University of Texas-Pan American, 2003; MA, Texas State University, 2004.

Garza, Gavino, Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2004.

Garza, Joe M., Lecturer, Department of Marketing; MBA, The University of Texas-Pan American, 1983

Garza, Juanita, Lecturer, Department of History and Philosophy; History, U.S. History; MAIS, Pan American University, 1984.

Garza, Juliann, Clinical Assistant Professor, Physician Assistant Program, MS, The University of Texas-Pan American, 1999.

Garza, Teresa, Lecturer, Department of English; M.A., The University of Texas-Pan American, 2003.

Garza-Reyna, Gina, Lecturer, Department of Curriculum and Instruction; M.Ed., The University of Texas-Pan American, 2008.

Garza, Viola, Assistant Professor, Department of Nursing; MSN, The University of Texas-Pan American, 1996.

Gasquoine, Philip, Associate Professor and Chair, Department of Psychology and Anthropology; Ph.D., City University of New York, 1983.

Gilbert, Robert, Assistant Professor, Department of Art, MFA, California State University, 1995.

Gilson, Gregory, Associate Professor and Chair, Department of History and Philosophy; Ph.D., University of Wisconsin-Madison, 1998

Gkioulekas, Eleftherios, Assistant Professor, Department of Mathematics, Ph.D., University of Washington, 2006.

Glover, Noreen, Professor, Department of Rehabilitation. Rh.D., Southern Illinois University, 1995

Gómez, Leo, Professor, Department of Curriculum and Instruction; Philosophy, Curriculum and Instruction, Bilingual/ESL; Ph.D., Texas A&M University, 1994.

Gonzales, Stanley Z., Lecturer, Department of Criminal Justice; MA, Sam Houston State University, 1980.

Gonzalez, Genaro, Professor, Department of Psychology and Anthropology; Psychology, Social, Cross-Cultural; Ph.D., The University of California, Santa Cruz, 1982.

Gonzalez, Irasema S., Lecturer, Department of Curriculum and Instruction; M.Ed., The University of Texas-Pan American, 1995; Ed.D., Texas A&M University-Kingsville..

Gonzalez, John Michael, Assistant Professor, Department of Social Work, Ph.D., The University of Texas-Austin, 2008

Gonzalez, Jorge Antonio, Assistant Professor, Department of Management; Management, Texas A&M University, 2001.

Gonzalez, Juan, Assistant Professor, Department of Health and Kinesiology, Ph.D. Texas A&M University, College Station, 1995.

Gonzalez, Juan Luis, Assistant Professor, Department of Physics and Geology, Ph.D., Tulane University, 2008.

Gonzalez, Miguel A., Associate Dean, College of Engineering and Computer Science; Associate Professor, Department of Manufacturing Engineering; Training Simulators, Integrated Logistics Support, Manufacturing Systems, Work Science and Ergonomics, Applied Operations Research and Quality Management; Ph.D., University of Houston, 1995.

Gonzalez, Rene, Assistant Professor, Department Rehabilitation. Ph.D., University of Wisconsin-Madison, 2009.

Goren, Allan, Lecturer, Department of English; Ph.D., The University of Washington, 1998.

Grabowski, Laura M., Assistant Professor, Department of Computer Science, Ph.D., Michigan State University, 2009.

Grabowski, Thomas E., Associate Professor, Department of Communication; Theatre/TV/Film; MFA, University of Illinois at Urbana-Champaign, 1981.

Graham, Margaret, Associate Professor, Department of Psychology and Anthropology, Ph.D., Michigan State University, 1991.

Grant, Ken, Lecturer, Department of History and Philosophy; History, Ph.D., Lutheran School of Theology at Chicago, 2000.

Gressel, Justin Wayne, Assistant Professor, Department of Marketing; Marketing, Ph.D., Purdue University, 2006.

Grossman, Morley K., Professor, Department of Music and Dance; Piano; DMA, Indiana University, 1983.

Guadarrama, Irma Nelly, Professor, Department of Curriculum and Instruction, Ph.D., The University of Texas at Austin, 1982.

Guajardo, Francisco, Associate Professor, Department of Educational Leadership; Ph.D., The University of Texas at Austin, 2003.

Guerra, Dahlia, Dean of College of Arts and Humanities; Professor, Department of Music and Dance; Piano and History of Mexican Folk Music; DMA, The University of Oklahoma, 1997.

Guerra, Petra, Assistant Professor, Department of Communication; Journalism; Ph.D., Washington State University-Pullman, 2003.

Guerra, Raymond S., Associate Professor, Department of Sociology; Japanese Society, Mexican-Americans, Ethnicity and Religion; Ph.D., Southern Methodist University, 1989.

Guerrero, Maria Del, Assistant Professor, Department of Modern Languages and Literatures: Ph.D., University of Texas at Austin, 2005.

Guerrero, Michael, Associate Professor, Department of Curriculum and Instruction; Educational Linguistics; Ph.D., The University of New Mexico, 1994.

Guetzow, Judith, Lecturer, Department of Rehabilitation; MS, The University of Texas-Pan American, 2001.

Guinn, Robert, Professor and Program Coordinator, Department of Health and Kinesiology; Health; Ph.D., Texas A&M University, 1974.

Gunn, Bonnie, Lecturer, Department of Biology; M.S., The University of Texas-Pan American, 1997.

Gunn, Scott J., Professor, Department of Biology; Genetics, Vertebrate Zoology; Ph.D., Texas A&M University, 1986.

Course Descriptions & Faculty

Guo, Chiquan, Associate Professor, Department of Marketing; Marketing; Ph.D., Southern Illinois University-Carbondale, 2001.

Gonzales, José J., Associate Professor, Department of Chemistry; Organic Chemistry; Ph.D., The University of Texas at Dallas, 2002.

Guzmán, Isabel (Penny), Clinical Specialist, Department of Nursing; MSN, University of Puerto Rico, 1972; MS, Texas A&M University-Corpus Christi, 1995.

Hamilton, Lee, Associate Professor, Department of English; 19th Century British Literature, Bibliography; Ph.D., Louisiana State University, 1982.

Hamilton, Rebekah, Visiting Professor and Interim Director of Writing Center.

Han, Aijie, Assistant Professor, Department of Chemistry, Ph.D., Fudan University, 2005.

Hannan, Mohammad Abdul, Associate Professor, Department of Physics and Geology; Solar Energy; Ph.D., University of London-United Kingdom, 1976.

Hansmann, Sandra E., Associate Professor, Department of Rehabilitation; Ph.D., The University of Texas at Austin, 2000.

Harai, Michiyo, Assistant Professor, Department of Psychology and Anthropology, Ph.D., Virginia Tech, 2002.

Haraway, Claude, Lecturer, Department of English; Ph.D., The University of Southern Mississippi, 2006.

Hay, Amy M., Assistant Professor, Department of History and Philosophy; Ph.D., Michigan State University, 2005.

Hays, Robert L., Lecturer, Department of Political Science; M.A., University of Missouri-Columbia, 1986.

Heckler, Edward, Associate Professor, Department of English; Linguistics, ESL; Ph.D., Michigan State University, 1975.

Heller, William, Associate Professor, Department of Mathematics; Ph.D., University of Maryland, 1991.

Hernandez, José E., Associate Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., University of New Mexico-Albuquerque, 2004.

Hernandez, Leila M., Associate Professor, Department of Art; Graphic Design; MFA, University of Florida, 1999.

Hernandez, Rosalinda, Assistant Professor, Department of Educational Leadership; Ph.D., University of Texas at Austin, 1996.

Hernandez, Sonia, Assistant Professor, Department of History and Philosophy; Ph.D., University of Houston, 2006.

Hinojosa, Servando Z., Associate Professor, Department of Psychology and Anthropology; Anthropology, Maya of Guatemala, Chicano Culture, Medical Anthropology, Latin America; Ph.D., Tulane University, 1999.

Hinthorne, James, Senior Lecturer, Department of Physics and Geology; Geology, Ph.D., University of California, Santa Barbara, 1974.

Hirai, Michiyo, Assistant Professor, Department of Psychology and Anthropology; Ph.D., Virginia Polytechnic Institute and State University, Blacksberg, Va., 2002.

Ho, Jungseok, Assistant Professor, Department of Mechanical Engineering; Ph.D., University of New Mexico, 2006.

Hoppens, Robert James, Assistant Professor, Department of History and Philosophy; Ph.D., University of Washington, 2009.

Huber, Timothy J., Assistant Professor, Department of Mathematics; Ph.D., University of Illinois, 2007.

Huerta, Carolina, Professor and Chair, Department of Nursing; Adult Education; Ed.D., Texas A&M University, 1990.

Hughes, Jerald K., Assistant Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., Graduate Center CUNY, 2006.

Hurt, Kevin, Lecturer, Department of Computer Information Systems and Quantitative Methods; MS, Texas Tech University, 1990.

Huq, Hasina, Assistant Professor, Department of Electrical Engineering, Ph.D., University of Tennessee, 2006.

Hyslin, Richard P., Professor, Department of Art; Ceramics, Sculpture, Drawing; MA, The University of New Mexico, 1968.

Ibrahim, Elamin, Associate Professor, Department of Chemistry; Analytical Chemistry; Ph.D., Mississippi State University, 1995.

Ignizio, James, Professor, Department of Manufacturing Engineering; Ph.D., Virginia Polytechnic Institute
Infante, Irma, Lecturer, Department of Undergraduate Studies; M.Ed., The University of Texas-Pan American, 1976.

Irizarry, Richard, Lecturer, Department of Curriculum and Instruction; Ph.D., The University of Texas at Austin, 1979.

Jackson, Dave O., Associate Professor, Department of Economics and Finance; Ph.D., Florida Atlantic University, 2002.

Jackson, Edward J., Lecturer, Department of Political Science; MA, California State University, 1970.

Jackson, Joyce Diane, Assistant Professor, Department of Computer Information Systems, Ph.D., University of South Carolina, 2007.

James-Aldridge, Valerie G., Associate Professor, Department of Psychology and Anthropology; Psychology, Animal Behavior, Primate Behavior, Research in Zoos; Ph.D., Oklahoma State University, 1975.

Jaworski, Michael, Lecturer, Department of History and Philosophy; Philosophy, Master in Philosophy, The Ohio State University, 2005.

Jin, Changha, Assistant Professor, Department of Economics and Finance; Finance, Georgia State University, 2008.

John, Betty, Clinical Instructor, Department of Nursing; MSN, Christian Medical College and Hospital, 2001.

Johnk, David, Lecturer, Department of Computer Information Systems and Quantitative Methods; MS, University of Texas-San Antonio, 1998.

Johnson, Michael B., Assistant Professor, Department of Educational Psychology; Counseling and School Psychology; Ph.D., Florida State University, 2006.

Johnson, Randall, Lecturer, Department of Health and Kinesiology; Ph.D., The Ohio State University, 1990.

Johnson, Robert, Professor, Department of English; American Literature, Southern Women Writers; Ph.D. University of Southern California, 1994.

Jones, Cynthia, Associate Professor, Department of History and Philosophy; Ph.D., University of Missouri, 2001.

Jones Jr., Robert E., Professor, Department of Mechanical Engineering; Mechanical Engineering; Ph.D., Texas A&M University, 1990.

Jorgensen, Layne, Professor and Graduate Program Coordinator, Department of Health and Kinesiology; Biomechanics and Research Methods; Ph.D., Louisiana State University, 1971.

Jou, Jerwen, Professor, Department of Psychology and Anthropology; Psychology, Cognitive Psychology; Ph.D., Kansas State University, 1990.

Jung, Joo Young, Associate Professor, Department of Management; Mechanical Engineering; Ph.D., University of Connecticut, 1992; MBA, 2002.

Kaynak, Hale, Professor, Department of Management; Management, Production and Operation; Ph.D., University of North Texas, 1996.

Keller, Christopher, Associate Professor, Department of English; Ph.D., University of Florida, 2001.

Kim, Min, Assistant Professor, Department of Music and Dance; MFA, Arizona State University, 2005.

Kinsella, Brendan, Assistant Professor, Department of Music and Dance; DMA, University of Missouri-Kansas City, 2008.

Knight, Thomas D., Assistant Professor, Department of History and Philosophy; Early American History; Ph.D., University of Oxford, 2004.

Knobel Jr., Roger A., Associate Professor, Department of Mathematics; Differential Equations, Applied Mathematics; Ph.D., Rensselaer Polytechnic Institute, 1991.

Koo, Felix Chong Wah, Clinical Coordinator and Assistant Clinical Professor, Physician Assistant Studies Program; Pediatrics; Ph.D., The University of Texas Medical Branch-Galveston, 1981; M.D., The University of Texas Health Science Center at San Antonio, 1990.

Koong, Kai S., Professor and Chair, Department of Computer Systems and Quantitative Methods; Ph.D., Mississippi State University, 1987.

Kranz, Peter, Associate Professor, Department of Educational Psychology; Child Psychology; Ph.D., Utah State University, 1969.

Kuang, Anxiu, Professor, Department of Biology; Plant Development, Plant Physiology, Cell Ultrastructure; Ph.D., Auburn University, 1991.

Kuang, Weidong, Associate Professor, Department of Electrical and Computer Engineering; Ph.D., University of Central Florida, 2003.

Kuhn, Lisa L., Assistant Professor, Physician Assistant Studies Program; Family Practice, Obstetrics and Gynecology; MMS, Nova Southeastern University-Florida, 2004.

Kumar, Sanjeev, Associate Professor, Department of Electrical Engineering; Communications Networks, Protocols, Computer Architecture; Ph.D., North Carolina State University, 1995.

Kypuros, Javier A., Associate Professor, Department of Mechanical Engineering; Ph.D., The University of Texas at Austin, 2001.

Lang, Yong, Associate Professor, Department of English; Linguistics, ESL; Ph.D., The Ohio State University, 1998.

Lantz, Keith W., Professor, Department of Accounting and Business Law; Ph.D., The University of Iowa, 1975.

Course Descriptions & Faculty

LaPrade, Douglas E., Professor, Department of English; 20th Century American Literature; Ph.D., University of Illinois, 1988.

Lavariega-Monforti, Jessica, Associate Professor, Department of Political Science; Ph.D., The Ohio State University, 2001.

Lawrence-Fowler, Wendy A., Vice Provost for Research; Professor, Department of Computer Science; Databases, Large Open Information Systems, Information Retrieval, Artificial Intelligence; Ph.D., The Ohio State University, 1983.

Lawton, Sean Dodd, Assistant Professor, Department of Mathematics, Ph.D., University of Maryland, 2006.

Leach, Stephen, Associate Professor, Department of History and Philosophy; Ph.D., University of New Mexico-Albuquerque, 1999.

Lee, Hyun-Chul, Lecturer, Department of Physics and Geology; Ph.D., Yonsei University, South Korea, 2001.

Lee, Kye-Hwan, Associate Professor, Department of Manufacturing Engineering; CAD, Plastics Processing and Product Design, Mold Design and Analysis; Ph.D., University of Massachusetts-Lowell, 1997.

Lee, Kyoung, Lecturer, Department of English; Ph.D., Wayne State University, 2010.

Leka, Gary, Lecturer, Department of Psychology and Anthropology; MA, The University of Texas-Pan American, 1998.

Lemanski, Jennifer, Assistant Professor, Department of Communication, Journalism; Ph.D., University of Florida College of Journalism and Communications, 2007.

Levinson, Irving W., Assistant Professor, Department of History and Philosophy; Ph.D. in History, University of Houston, 2003.

Li, Jianzhi (James), Associate Professor, Department of Manufacturing Engineering Industrial Engineering; Ph.D., Texas Tech University, 2003.

Li, Junfei, Associate Professor, Department of Electrical Engineering; Electrical and Computer Engineering; Ph.D., The University of Texas at Austin, 2002.

Lian, Xiang, Assistant Professor, Department of Computer Science; Ph.D., The Hong Kong University of Science and Technology, 2009.

Lieman, Jonathan H., Assistant Professor, Department of Biology; Biology/Biomed Science (MOL Cell Biol.); Ph.D., Washington State University-St. Louis, 2004.

Lin, Yuankun, Associate Professor, Department of Physics and Geology; Physics; Ph.D., University of British Columbia-Canada, 2000.

Liu, Fang, Assistant Professor, Department of Computer Science, Ph.D., George Washington University, 2007.

Liu, Lai, Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., Mississippi State University, 1989.

Liu, Yang, Assistant Professor, Department of Computer Science, Ph.D., Texas A&M University, 2009.

Loera, Francisco, Lecturer, Department of Music and Dance; Spanish, Music and Popular Culture; MA, The University of Texas-Pan American, 2000

Longoria, Denise, Assistant Professor, Department of Social Work; Ph.D., Capella University, 2010.

Lopez, Carlos, Lecturer, Department of English; MA, The University of Texas-Pan American, 2006.

Lopez, Luis Alfonso, Lecturer, Department of Music and Dance; Master of Music, The University of Texas-Pan American, 2007.

Lovell, Kenneth, Lecturer, Department of Economics and Finance; MBA, Sam Houston State University, 1988.

Lovett, Bobbie, Lecturer, Department of Psychology and Anthropology; MA, The University of Texas-Pan American, 1991.

Lowdermilk, John L., Assistant Professor, Department of Educational Psychology; Assistive Technology; Ph.D., University of North Texas, 2004.

Lowe, Jerry M., Professor and Chair, Department of Educational Leadership; Ed.D., Texas A&M University, 1989.

Lowe, Kristine L., Assistant Professor, Department of Biology; Applied Biology; Ph.D., Georgia Institute of Technology, 1999.

Lozano, Andres, Associate Professor, Department of Computer Science; Ph.D., University of California-Riverside, 2004.

Lozano, Karen, Endowed Professor, Department of Mechanical Engineering; Composites, Nano-Structured Materials, Polymer Engineering; Ph.D., Rice University, 1999.

Lyles, Donald, Assistant Professor, Department of Art, MFA, American University, Washington, D.C., 2000.

Lynch, Cynthia E., Associate Professor, Public Administration Program; Ph.D., Southern University & A&M College, 2003.

Lynch, Robert, Lecturer, Department of Criminal Justice; MS, Fordham University,

Macias, Maria E., Assistant Professor, Department of Art; MFA, The University of Texas-Pan American, 2001.

Macossay-Torres, Javier, Associate Professor, Department of Chemistry; Organic/Polymer Chemistry; Ph.D., Louisiana State University, 1995.

Mahmood, Salma, Lecturer, Department of Mathematics; MS, Texas Southern University, 1990.

Maloyed, Christie, Visiting Assistant Professor, Department of Political Science; Ph.D., Texas A&M University, 2010.

Mancha, Jaime Javier, Lecturer, Department of Undergraduate Studies, M.Ed., The University of Texas-Pan American, 2006.

Mann, Frederick D., Lecturer, Department of Communication; Journalism, Educational Technology; M.Ed., Texas A&M University-Commerce, 1976.

Mao, Yuanbing, Assistant Professor, Department of Chemistry; Ph.D., State University of New York at Stony Brook, 2006.

Marini, Irmo, Professor, Department of Rehabilitation; Certified Rehabilitation Counselor; Ph.D., Auburn University, 1992.

Martin-Ochoa, Luz Maria, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature and Creative Writing; Ph.D., University of Houston, 2005.

Martinez, David, Associate Professor, Department of Art; MFA, The School of Art Institute of Chicago, 1997.

Martinez, Glenn A., Chair and Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., University of Massachusetts, 2000.

Martinez, José M., Professor, Department of Modern Languages and Literature; Hispanic Literature; Ph.D., Universidad de Valladolid, Spain, 1991.

Martinez, Kurt, Assistant Professor, Department of Music and Dance; DMA, The University of Texas at Austin, 2003.

Martinez, Pedro, Assistant Professor and Chair, Department of Music and Dance; DMA, University of Minnesota, 2004.

Maruno, Kenichi, Assistant Professor, Department of Mathematics; Ph.D., Kyushu University, 1999.

Mata-Pistokache, Teri, Associate Professor, Department of Communication Sciences and Disorders; Multicultural/Multilingual; Ph.D., The University of Texas at Austin, 1995.

Materon, Luis A., Professor, Department of Biology; Food Microbiology, Microbial Ecology, Biological Nitrogen Fixation; Ph.D., Mississippi State University, 1982.

Matthews, Linda Sargent, Associate Professor and Chair, Department of Management; Management; Ph.D., University of Washington, 1996.

Maville, Janice A., Professor, Department of Communication Sciences and Disorders and Professor, Department of Nursing; Ed.D., Texas A&M University, 1992.

Mazariegos, Ruben A., Associate Professor, Department of Physics and Geology; Geophysics; Ph.D., Texas A&M University, 1993.

McCracken, Ila Moriah, Assistant Professor, Department of English, Ph.D., Texas Christian University, 2008.

McDonald, J. Andrew, Assistant Professor, Department of Biology; Botany; Ph.D., The University of Texas at Austin, 1982.

McDonald, Blair, Associate Professor, Department of Mechanical Engineering; Ph.D., University of Utah, 1996.

McDonie, R. Jacob, Assistant Professor, Department of English; Ph.D., University of California, 2010.

McGuffin, Martha, Lecturer, Department of Nursing; MSN, The University of Texas-Pan American, 2000.

McIntyre, John, Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2001.

McMahon, Marci, Renee, Assistant Professor, Department of English, Ph.D., University of Southern California, 2007.

McQuillen, Jeffrey, Associate Professor, Department of Communication; Communication Studies; Ph.D., The University of Oklahoma, 1984.

McQuillen, Marcolfa, Lecturer, Department of Undergraduate Studies; MA, The University of Texas-Pan American, 2001.

Medrano, Hilda, Professor, Department of Curriculum and Instruction; Curriculum and Instruction, Reading and Language Arts; Ph.D., The University of Texas at Austin, 1985.

Mejias, Hugo, Professor, Department of Modern Languages and Literature; Spanish, Linguistics; Ph.D., State University of New York at Buffalo, 1978.

Mellen, Graciela Maria, Lecturer, Department of Nursing, MSN, The University of Texas-Pan American, 2004.

Menchaca, Velma, Professor, Department of Educational Leadership; Curriculum and Instruction; Ph.D., Texas A&M University, 1991.

Mercado, Fidencio, Clinical Instructor, Department of Rehabilitation; MS, The University of Texas-Pan American, 2003.

Course Descriptions & Faculty

Mery, Adelle, Lecturer, Department of English; American Literature, World Literature; Ph.D., Texas A&M University, 1990.

Midha, Vishal, Assistant Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., University of North Carolina, 2007.

Mihut, Dorina, Assistant Professor, Department of Mechanical Engineering; Ph.D., University of Nebraska, 2006.

Mikolasky, Peter (Trey) S., Lecturer, Department of Communication; Communication Studies, TV/Theatre/Film; MFA, Texas Tech University.

Milan, Cindy L., Associate Professor, Department of Nursing; Administration and Supervision; Ed.D., University of Houston, 1997.

Miles, Caroline S., Assistant Professor, Department of English; Ph.D., University of Southern Mississippi, 2002.

Miles, Michael G., Enlisted Instructor, Department of Military Science; Master Sgt. (Retired), U.S. Army.

Milford, John, Lecturer, Public Administration Program; MPA, Texas Tech University.

Miller, Christopher L., Associate Professor, Department of History and Philosophy; History, U.S. Colonial, 19th Century, Native American; Ph.D., University of California, Santa Barbara, 1981.

Miller, Eva, Associate Professor and Master's Program Coordinator, Department of Rehabilitation; Rehabilitation Psychology; Ph.D., University of Arizona, 1999.

Mills, Shirley, Assistant Professor, Department of Education Leadership. Ph.D., University of Nebraska-Lincoln, 2005.

Minor, Michael, Professor and Director of Ph.D. Program, Department Marketing; Marketing; Ph.D., Vanderbilt University, 1987.

Mitchell, Rebecca N., Assistant Professor, Department of English; Comparative Literature; Ph.D., University of California, 2003.

Mollick, André V., Professor, Department of Economics and Finance; Socioeconomic Planning; Ph.D., University of Tsukuba, 1996.

Mondal, Jalal U., Professor, Department of Chemistry; Inorganic Chemistry; Ph.D., University of New South Wales, 1979.

Montgomery, Gary T., Assistant Dean, College of Social and Behavioral Sciences and Professor, Department of Psychology and Anthropology; Psychology, Developmental, Psychophysiology; Ph.D., Texas Tech University, 1972.

Mora, Marie T., Professor, Department of Economics and Finance; Ph.D., Texas A&M University, 1996.

Morales, Kelly, Lecturer, Department of Undergraduate Studies, Ed.D., University of Houston, 2008.

Morgan, Glynn, Associate Professor, Department of Political Science; U.S. and Texas Politics; MA, The University of Mississippi, 1961.

Morrison, Bryant, Lecturer, Department History and Philosophy; J.D., Tulane University School of Law, 1979.

Morrison, Robert, Lecturer, Department of Management; Management; Ph.D., Indiana State University, 2008.

Mounce, Gary, Associate Professor, Department of Political Science; Mexico, Central and South American Politics; Ph.D., The University of Texas at Austin, 1977.

Moyes, Glen, Associate Professor, Department of Accounting and Business Law; Accounting; DBA, U.S. International University-California, 1991.

Mukherjea, Arunava, Professor, Department of Mathematics; Ph.D., Wayne State University, 1967.

Munn, Albert, Professor, Department of Music and Dance; Ph.D., University of Oklahoma, 1991.

Munn, Vivian, Associate Professor, Department of Music; Voice, Music Theory; DMA, The University of Oklahoma, 1990.

Muñoz Dolores, Lecturer, Department of Education Leadership; Education Administration; Ph.D., The University of Texas at Austin, 1987.

Muñoz, Francisco, III, Lecturer, Department of Music and Dance; Health and Physical Education and Educational Supervision; M.Ed., Pan American University, 1977.

Murillo Benjumea, Luz, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of Arizona, 2001

Myers, Deborah L., Assistant Professor, Department of Health and Kinesiology; Exercise Science; Ph.D., University of Mississippi, 1998.

Nadeau, Nancy G., Lecturer, Department of Nursing; MSN, D'Youville College, 1993

Nambiar, Rajiv V., Associate Professor and Chair, Department of Manufacturing Engineering; Computer-Aided Design, Manufacturing Processes; Mechanical Engineering; Ph.D., The University of Texas at Arlington, 1989.

Neumann, Jacob William, Assistant Professor, Department of Curriculum and Instruction; M.Ed., University of Houston, 2002.

Nevárez, Miguel A., Professor, Department of Educational Leadership; Executive Director, Coastal Studies Lab; Retired President, The University of Texas-Pan American; Science Education; Ph.D., New York University, 1972.

Newman, Beatrice, Professor, Department of English; Rhetoric and Composition, 19th Century British Literature, Linguistics; Ph.D., Texas A&M University, 1981.

Newman, Donald, Professor, Department of English; 18th Century British Literature, Johnson and Boswell Studies, Biography; Ph.D., University of Southern California, 1992.

Newman, Jennifer Ann, Lecturer, Department of History and Philosophy; Ph.D., Auburn University, 2009.

Nieto, Beatriz, Assistant Professor, Department of Nursing; Ph.D., The University of Texas Health Science Center at San Antonio, 2005.

Ngo, Thanh Ngoc, Assistant Professor, Department of Economics and Finance; Finance; Ph.D., Florida Atlantic University, 2007.

Nguyen, Mau Nam, Assistant Professor, Department of Mathematics; Ph.D., Wayne State University, 2007.

Nguyen, Nam, Lecturer, Department of Mathematics; MS, The University of Texas-Pan American, 2004.

Noe, Joe Markus, Associate Professor, Department of English Rhetoric and Composition; Ph.D., Texas Christian University, 2001.

Nuss, Melynda, Associate Professor, Department of English; Ph.D., The University of Texas at Austin, 2003.

Ochoa, Salvador H., Dean, College of Education and Professor, Department of Educational Psychology; School Psychology; Ph.D., Texas A&M University, 1989.

Oh, Jing-il, Assistant Professor, Department of Health and Kinesiology, Ph.D., The University of Alabama, 2007.

O'Neil, Lorne William, Professor, Department of Music and Dance; Woodwinds; DMA, University of Minnesota, 1990.

Onica, Constantin, Assistant Professor, Department of Mathematics; Ph.D., Texas A&M University, 2005.

Ostorga, Alcione, Associate Professor, Department of Curriculum and Instruction; Ph.D., Fordham University-New York, 2002.

Otto, Debra, Assistant Professor, Department of Nursing; MSN, University of Phoenix, 1995.

Ozuna, Teofilo, Dean, College of Business Administration and Professor, Department of Economics and Finance; Economics; Ph.D., Texas A&M University, 1989.

Paccacerqua, Cynthia, Assistant Professor, Department of History and Philosophy; MA, Stanford University, 2000.

Pace, Lorenzo, Professor, Department of Art; Ph.D., Ed.D., Illinois State University, 1978.

Pagan, Joel, Assistant Professor, Department of Music and Dance; DMA, Michigan State University, 2004.

Pankake, Anita, Professor and Director of the Doctoral Program, Department of Educational Leadership; Ed.D., Loyola University of Chicago, 1985.

Parchman-Gonzalez, Keri, Lecturer and Interim Coordinator, Department of Communication Sciences and Disorders; MA, The University of Texas-Pan American, 1989.

Park, Young-Gil, Assistant Professor, Department of Mechanical Engineering; Ph.D., University of Illinois, 2007.

Parsons, Jason, Assistant Professor, Department of Chemistry; Ph.D., The University of Texas El Paso, 2003.

Patitz, Matthew, Assistant Professor, Department of Computer Science; Ph.D., Iowa State University, 2010.

Pazdera, Donna M., Lecturer, Department of Communication; Journalism, Mass Communications; MA, University of Florida, 2003.

Pearson, Thomas, Associate Professor, Department of History and Philosophy; Ph.D., Southern Illinois University-Carbondale, 1994.

Pecina, Julia, Lecturer, Department of Educational Psychology; Educational Diagnostician; M.Ed., The University of Texas-Pan American, 1996.

Peña, Carmen M., Associate Professor, Secondary Program, Department of Curriculum and Instruction; Ph.D., University of Iowa, 1995.

Peng, Jun, Assistant Professor, Department of Electrical Engineering; Electrical and Computer Engineering. Ph.D., Rensselaer Polytechnic Institute, 2004.

Penzerro, Rose, Senior Lecturer, Department of Psychology and Anthropology; Ph.D., University of Texas at Austin, 1992.

Pereyra, Nicolás, Assistant Professor, Department of Physics and Geology, Physics; Ph.D., University of Maryland at College Park, 1995.

Course Descriptions & Faculty

Perez, Laura E., Assistant Professor, Department of English; MFA, Columbia University, 1995

Perez, Maria Alma G., Director of UTPA Starr County and Assistant Professor, Department of Curriculum and Instruction; Ph.D., Texas A&M University-Kingsville, 1998.

Persans, Michael, Associate Professor, Department of Biology; Plant Biology; Ph.D., University of Illinois, 1998.

Phillips, Richard, Associate Professor, Department of Art; Art History; Ph.D., The University of Texas at Austin, 1993.

Phillips, Sharia, Lecturer, Department of English; Curriculum and Instruction, Ed.D., Indiana University of Pennsylvania, 2003.

Pierce, Virgil Ulysses, Assistant Professor, Department of Mathematics; Ph.D., University of Arizona, 2004.

Platt, Kamala, Lecturer, Department of English; Ph.D., University of Texas at Austin, 1997

Poelzer, Herold, Professor, Department of Educational Psychology; Educational Psychology, Gifted Education; Ph.D., Purdue University, 1994.

Poletaeva, Elena, Assistant Professor, Department of Mathematics; Ph.D., Pennsylvania State University, 1992.

Polinard, J.L., Professor, Department of Political Science; Public Law, Minority Politics; Ph.D., The University of Arizona, 1970.

Pontius, Paul, Assistant Professor, Department of Mathematics; Mathematics Education; MA, University of Illinois, 1964.

Pozorski, Shelia, Professor, Department of Psychology and Anthropology; Anthropology, New World Archaeology, Archaeological Method and Theory, Ethnobiology, Museum Studies; Ph.D., The University of Texas at Austin, 1976.

Pozorski, Thomas, Professor, Department of Psychology and Anthropology; Anthropology, New World Archaeology, South American Culture, Complex Societies; Ph.D., The University of Texas at Austin, 1976.

Qiao, Zhijun, Associate Professor, Department of Mathematics; Ph.D., Fudan University-People's Republic of China, 1997.

Qin, Hong, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, University of North Texas, 2009.

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