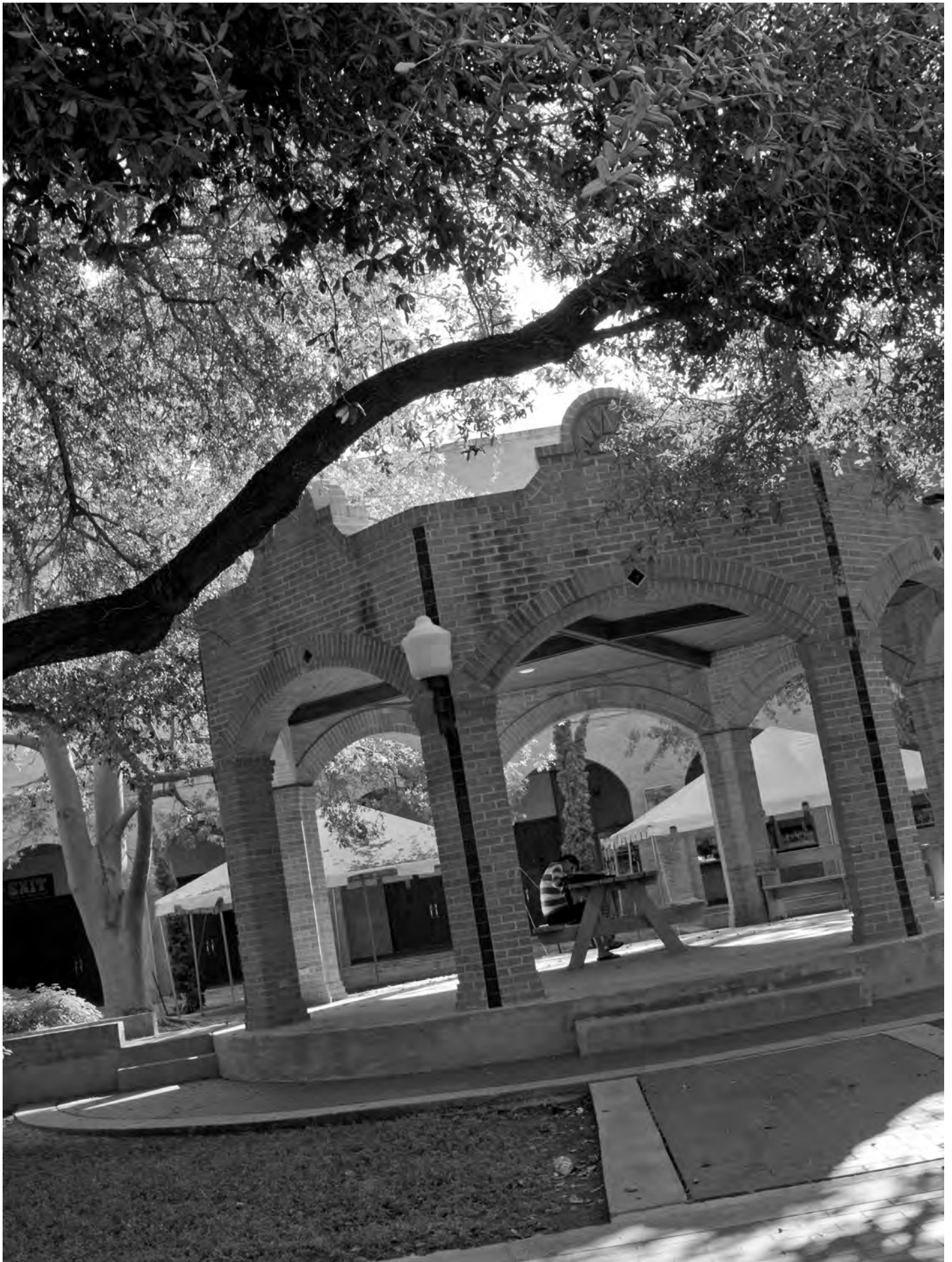


THE UNIVERSITY OF TEXAS  
PAN AMERICAN

2009-2011  
UNDERGRADUATE  
CATALOG



# The University of Texas-Pan American 2009-2011 Undergraduate Catalog

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

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

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

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

American Chemical Society

Commission on Accreditation for Dietetics Education (CADE)

American Speech-Language-Hearing Association (ASHA)

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

Commission for Collegiate Nursing Education

Board of Nurse Examiners for the State of Texas

The Council on Rehabilitation Education (CORE)

The Council on Social Work Education (CSWE)

ABET, Inc.

111 Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

National Association of Schools of Theatre (NAST)

State Board for Educator Certification (SBEC)

Texas Education Agency (TEA)

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

The University of Texas-Pan American is a member of the  
American Association of Colleges for Teacher Education  
American Association of State Colleges and Universities  
American Council on Education  
Association for Continuing Higher Education  
Conference of Southern Graduate Schools  
Council for Advancement and Support of Education  
Council of Graduate Schools  
Hispanic Association of Colleges and Universities

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

For updates to this catalog, check the online version at <http://www.utpa.edu/catalog>.

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

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

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

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

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

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

Individuals who believe they have been discriminated against in violation of any of the non-discrimination policies may, after an initial interview with the appropriate compliance officer named above, initiate grievance proceedings in accordance with the provisions and procedures stipulated under Student Complaint Procedures and Grievance Policy for Complaints Concerning Discrimination on the Basis of Disability found in the University's Handbook of Operating Procedures.

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

## Calendar 2009-2011

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

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

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

### Fall 2009

April 6, 2009, Monday (tentative)

ASSIST registration (Web) begins by classification for Fall 2009.

April 17, 2009, Friday

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

August 28, 2009, Friday

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

August 31, 2009, Monday

First day of classes.

September 7, 2009, Monday

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

September 16, 2009, Wednesday

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

September 18, 2009, Friday

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

September 29, 2009, Tuesday

Last day to change to non-credit.

November 2, 2009, Monday (tentative)  
ASSIST registration (Web) begins by classification for Spring, 2010.

November 12, 2009, Thursday  
Last day to drop a course or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

November 26-28, 2009, inclusive  
Thanksgiving holiday, no classes.  
Cafeteria closed Thursday through Saturday.

November 29, 2009, Sunday  
Residence Halls reopen at noon.  
Cafeteria open for dinner only.

December 4, 2009, Friday  
Deadline to file Application for Degree Form with the Office of the Registrar for July 2010 graduation.

December 10-11, 2009, inclusive  
Study days, no classes or final examinations.

December 12-18, 2009, inclusive  
Fall semester final examinations.

December 18, 2009, Friday  
Residence Halls close at 6 p.m.  
Cafeteria open for breakfast and lunch only.

December 19, 2009, Saturday  
Commencement exercises.

December 21, 2009, Monday  
Fall final grades to be entered by faculty no later than 3 p.m.

### Spring 2010

September 18, 2009, Friday  
Deadline to file Application for Degree Form with the Office of the Registrar for May 2010 graduation.

November 1, 2009, Sunday  
Admission application and document deadline for international students.

November 2, 2009, Monday (tentative)  
ASSIST registration (Web) begins by classification for Spring 2010.

January 4, 2010, Monday  
Admission application and document deadline for late registration. Applications received after this deadline will be processed for the next semester.

January 12, 2010, Tuesday  
Housing move-in begins at noon.  
Cafeteria open for dinner only.

January 18, 2010, Monday  
Martin Luther King Day holiday, no classes, campus closed.

January 19, 2010, Tuesday  
First day of classes.

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

February 3, 2010, Wednesday  
Twelfth class day, census date.  
Courses dropped by this date do not count toward six course drop limit.

February 17, 2010, Wednesday  
Last day to change course to non-credit.

March 12, 2010, Friday  
Residence Halls close for Spring Break at 6 p.m.  
Cafeteria open for breakfast and lunch only.

March 13-20, 2010, inclusive  
Cafeteria closed.

March 15-20, 2010, inclusive  
Spring Break, no classes.

March 21, 2010, Sunday  
Residence Halls reopen at noon.  
Cafeteria open for dinner only.

April 2-3, 2010, inclusive  
Easter holiday, no classes.

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

April 9, 2010, Friday  
Last day to drop a course or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

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

May 6-7, 2010, inclusive  
Study days, no classes or final examinations.

May 8-14, 2010, inclusive  
Spring semester final examinations.

May 14, 2010, Friday  
Residence Halls close at 6 p.m.  
Cafeteria open for breakfast and lunch only.

May 15, 2010, Saturday  
Commencement exercises.

May 17, 2010, Monday  
Final grades to be entered by faculty no later than 3 p.m.

### **Miniterm 2010**

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

May 16, 2010, Sunday  
Housing move-in begins at 9 a.m.

May 17, 2010, Monday  
First day of classes.

May 18, 2010, Tuesday  
Second class day, census date.  
Courses dropped by this date do not count toward six course drop limit.

May 27, 2010, Thursday  
Last day to drop a course or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade he/she earns.

May 31, 2010, Monday  
Memorial Day holiday, no classes, campus closed.

June 2, 2010, Wednesday  
Last day of classes.

June 3, 2010, Thursday  
Study day, no classes or final examinations.

June 4, 2010, Friday  
Miniterm final examinations.  
Residence Halls close at 6 p.m.

June 7, 2010, Monday  
Miniterm final grades to be entered by faculty no later than 3 p.m.

August 21, 2010, Saturday  
Commencement exercises.

### **Summer I 2010**

December 4, 2009, Friday  
Deadline to file Application for Degree Form with the Office of the Registrar for July 2010 graduation.

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

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

June 7, 2010, Monday  
First day of classes.

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

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

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

July 4, 2010, Sunday  
Fourth of July.

July 9, 2010, Friday  
Last day of classes.

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

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

August 21, 2010, Saturday  
Commencement exercises.





## Summer II 2010

January 22, 2010, Friday

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

April 5, 2010, Monday (tentative)

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

July 9, 2010, Friday

Housing move-in begins at 9 a.m.

July 14, 2010, Wednesday

First day of classes.

July 19, 2010, Monday

Fourth class day, census date.

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

July 23, 2010, Friday

Last day to change course to non-credit.

August 6, 2010, Friday

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

August 17, 2010, Tuesday

Last day of classes.

August 18, 2010, Wednesday

Study day, no classes or final examinations.

August 19, 2010, Thursday

Summer II final examinations.

Residence Halls close at 6 p.m.

Cafeteria open for breakfast and lunch only.

August 20, 2010, Friday

Final grades to be entered by faculty no later than 5 p.m.

August 21, 2010, Saturday

Commencement exercises.

## Summer III 2010

### • 10-week Session •

April 5, 2010, Monday (tentative)

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

June 7, 2010, Monday

First day of classes.

June 15, 2010, Tuesday

Seventh class day, census date.

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

July 3-5, 2010, inclusive

Midterm break and Fourth of July holiday, no classes.

July 28, 2010, Wednesday

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

August 16, 2010, Monday

Last day of classes.

August 17, 2010, Tuesday

Study day, no classes or final examinations.

August 18, 2010, Wednesday

Summer III final examinations.

August 19, 2010, Thursday

Summer III final grades to be entered by faculty no later than 5 p.m.

August 21, 2010, Saturday

Commencement exercises.

## Fall 2010

April 5, 2010, Monday (tentative)

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

April 16, 2010, Friday

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

August 27, 2010, Friday

Housing move-in begins at 9 a.m.

Cafeteria open for lunch and dinner.

## GENERAL INFORMATION

August 30, 2010, Monday

First day of classes.

September 6, 2010, Monday

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

September 15, 2010, Wednesday

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

September 17, 2010, Friday

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

September 28, 2010, Tuesday

Last day to change course to non-credit.

November 1, 2010, Monday (tentative)

ASSIST registration (Web) begins by appointment for Spring 2011.

November 11, 2010, Thursday

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

November 24, 2010, Wednesday

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

November 25-27, 2010, inclusive

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

November 28, 2010, Sunday

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

December 3, 2010, Friday

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

December 9-10, 2010, inclusive

Study days, no classes or final examinations.

December 11-17, 2010, inclusive

Fall semester final examinations.

December 17, 2010, Friday

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

December 18, 2010, Saturday

Commencement exercises.

December 20, 2010, Monday

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

## Spring 2011

September 17, 2010, Friday

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

November 1, 2010, Monday (tentative)

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

January 3, 2011, Monday

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

January 15, 2011, Saturday

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

January 17, 2011, Monday

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

January 18, 2011, Tuesday

First day of classes.

January 21, 2011, Friday

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

February 2, 2011, Wednesday

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

February 16, 2011, Wednesday

Last day to change a course to non-credit.

March 11, 2011, Friday

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

March 12-19, 2011, inclusive

Cafeteria closed.

March 14-19, 2011, inclusive

Spring Break, no classes.

March 20, 2011, Sunday

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



April 4, 2011, Monday (tentative)  
ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III and Fall 2011.

April 8, 2011, Friday  
Last day to drop courses or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade(s) he/she earns.

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

April 22-23, 2011, inclusive  
Easter holiday, no classes.

May 5-6, 2011, inclusive  
Study days, no classes or final examinations.

May 7-13, 2011, inclusive  
Spring semester final examinations.

May 13, 2011, Friday  
Residence Halls close at 6 p.m.  
Cafeteria open for breakfast and lunch only.

May 14, 2011, Saturday  
Commencement exercises.

May 16, 2011, Monday  
Spring final grades to be entered by faculty no later than 3 p.m.

### Miniterm 2011

April 4, 2011, Monday (tentative)  
ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III and Fall 2011.

May 15, 2011, Sunday  
Housing move-in begins at 9 a.m.

May 16, 2011, Monday  
First day of classes.

May 17, 2011, Tuesday  
Second class day, census date.  
Courses dropped by this date do not count toward six course drop limit.

May 27, 2011, Friday  
Last day to drop courses or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade(s) he/she earns.

May 30, 2011, Monday  
Memorial Day holiday, no classes, campus closed.

June 1, 2011, Wednesday  
Last day of classes.

June 2, 2011, Thursday  
Study day, no classes or final examinations.

June 3, 2011, Friday  
Miniterm final examinations.  
Residence Halls close at 6 p.m.

June 6, 2011, Monday  
Miniterm final grades to be entered by faculty no later than 3 p.m.

August 20, 2011, Saturday  
Commencement exercises.

### Summer I 2011

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

April 4, 2011, Monday (tentative)  
ASSIST registration (Web) begins by classification for Miniterm, Summer I, Summer II, Summer III, and Fall 2011.

June 5, 2011, Sunday  
Housing move-in begins at 9 a.m.

June 6, 2011, Monday  
First day of classes.

June 9, 2011, Thursday  
Fourth class day, census date.  
Courses dropped by this date do not count toward six course drop limit.

June 15, 2011, Wednesday  
Last day to change course to non-credit.

June 30, 2011, Thursday  
Last day to drop courses or withdraw from the University with a grade of DR or W recorded. After this date student remains enrolled in course(s) and receives whatever letter grade(s) he/she earns.

July 4, 2011, Monday  
Fourth of July holiday, no classes, campus closed.

July 8, 2011, Friday  
Last day of classes.

## GENERAL INFORMATION

July 11, 2011, Monday

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

July 12, 2011, Tuesday

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

August 20, 2011, Saturday

Commencement exercises.

### Summer II 2011

January 21, 2011, Friday

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

April 4, 2011, Monday (tentative)

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

July 12, 2011, Tuesday

Housing move-in begins at 9 a.m.

July 13, 2011, Wednesday

First day of classes.

July 18, 2011, Monday

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

July 22, 2011, Friday

Last day to change course to non-credit.

August 5, 2011, Friday

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

August 16, 2011, Tuesday

Last day of classes.

August 17, 2011, Wednesday

Study day, no classes or final examinations.

August 18, 2011, Thursday

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

August 19, 2011, Friday

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

August 20, 2011, Saturday

Commencement exercises.



## Summer III 2011 10 week Session

April 4, 2011, Monday (tentative)

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

June 6, 2011, Monday

First day of classes.

June 14, 2011, Tuesday

Seventh class day, census date.

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

July 4-5, 2011, inclusive

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

July 27, 2011, Wednesday

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

August 15, 2011, Monday

Last day of classes.

August 16, 2011, Tuesday

Study day, no classes or final examinations.

August 17, 2011, Wednesday

Summer III Final Examinations.

August 18, 2011, Thursday

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

August 20, 2011, Saturday

Commencement exercises.



# THE UNIVERSITY OF TEXAS PAN AMERICAN

## OVERVIEW

The University of Texas-Pan American is a comprehensive, public coeducational institution located in Edinburg, Texas, close to the Mexican border and 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 University of Texas-Pan American is the premier learner-centered research institution in the State of Texas. We actively engage businesses, communities, cultural organizations, educational organizations, health providers and industry to find solutions to civic, economic, environmental and social challenges through inquiry and innovation.

### ▲ VALUES

We value ethical conduct based on honesty, integrity and mutual respect in all interactions and relationships.

We value student access to higher education, recognizing their diversity and needs.

We value student success fostered through the commitment of faculty and staff.

We value a diversity of perspectives, experiences and traditions as essential components of a quality education.

We value curiosity, exploration, inquiry, innovation, creativity and an entrepreneurial spirit.

We value collaboration with internal and external constituent groups.

We value active involvement in shared governance, consensus-building, teamwork and open communication.

We value our relationship as a united community of scholars, students and staff, enriching each other's work and lives through our commitment to the advancement of UTPA.

### ▲ GOALS

Provide students a quality educational experience that enables them to complete their educational goals in a timely fashion.

Become an outstanding research institution, emphasizing collaborative partnerships and entrepreneurship.

Enhance UTPA's engagement with the community to meet challenges and maximize opportunities.

Collaborate with P-12 schools to enlarge the pool of applicants who are personally prepared and academically qualified for higher education.

Infuse Inter-American and global perspectives throughout the University community.

Optimize institutional effectiveness and efficiency consistent with high quality organizational standards.



### ▲ UNIVERSITY HISTORY

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

- 1927-1933      Edinburg College was founded as a two-year community college governed by the Edinburg School District. The original building housed 200 students and today is listed as a historical site in the city of Edinburg, the county seat for Hidalgo County.
  - 1933-1948      Edinburg Junior College, as the only institution of higher learning in South Texas, experienced rapid growth in its early years, prompting administrators to pursue the first name change.
  - 1948-1952      Edinburg Regional College was moved from the original four-acre site to 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 UTPA is one of the fastest growing universities in the UT System with a current enrollment of more than 18,300 students. The institution is poised to become a learner-centered doctoral research institution.



### ▲ THE STUDENTS

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

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

Enrollment in Fall 2009 was 18,337. According to the Texas Higher Education Coordinating Board's "Closing the Gaps" target, the University is expected to have a fall enrollment of 20,000 students by the year 2015.

### ▲ DEGREES AND PROGRAMS

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

#### BACHELOR'S DEGREES

##### College of Arts and Humanities

- Art (BA, BFA)
- Communication
  - Communication Studies (BA)
  - Journalism (BA)
  - Theatre (BA)
- Dance (BA)
- English (BA)
- French (BA)
- History (BA)
- Inter-American Studies
  - Latin-American Studies (BA)
  - Social Studies Composite 8-12 (BA)

- Mexican-American Heritage (BA)
- Music (BA, BM)
- Philosophy (BA)
- Spanish (BA)

##### College of Business Administration

- Accounting (BBA)
- Computer Information Systems (BBA)
- Economics (BA, BBA)
- Finance (BBA)
- International Business (BBA)
- Management (BBA)
- Marketing (BBA)

##### College of Education

- Health (BS)
- Kinesiology (BS)
- Interdisciplinary Studies (BIS)

##### College of Health Sciences and Human Services

- Clinical Laboratory Sciences (BS)
- Communication Sciences and Disorders (BS)
- Dietetics (BS)
- Nursing (BSN)
- Rehabilitative Services (BS)
- Rehabilitative Services — Addiction Studies (BS)
- Rehabilitative Services — Deaf Studies (BS)
- Social Work (BSW)

##### College of Science and Engineering

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

##### College of Social and Behavioral Sciences

- Anthropology (BA)
- Criminal Justice (BSCJ)
- Political Science (BA)
- Psychology (BA, BS)
- Sociology (BA)

##### Interdisciplinary Bachelor's Degrees

- Applied Arts and Sciences — Liberal Arts (BAAS)\*
- Applied Arts and Sciences —
  - Business Technology (BAAS)\*
- General Studies (BGS)\*

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



**GRADUATE DEGREES**

**Master's Degrees**

**College of Arts and Humanities**

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

**College of Business Administration**

- Business Administration (MBA)
- Accountancy (MAcc)
- Accounting (MSA)

**College of Education**

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

**College of Health Sciences and Human Services**

- Adult Health Nursing (MSN)
- Communication Sciences and Disorders (MS)
- Family Nurse Practitioner (MSN)
- Occupational Therapy (MS)

- Pediatric Nurse Practitioner (MSN)
- Physician Assistant Studies (MPAS)
- Rehabilitation Counseling (MS)
- Social Work (MSSW)

**College of Science and Engineering**

- Biology (MS)
- Chemistry (MS)
- Computer Science (MS)
- Engineering (MSE)
  - Electrical
  - Manufacturing
  - Mechanical
  - Engineering Management
- Information Technology (MSIT)
- Mathematical Science (MS)
- Mathematics Teaching (MS)
- Master of Science in Interdisciplinary Studies (MSIS)
  - Chemical Education
  - Physics

**College of Social and Behavioral Sciences**

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

**Doctoral Degrees**

**College of Arts and Humanities**

- Spanish (PhD) in cooperation with The University of Houston

**College of Business Administration**

- Business Administration with an emphasis in International Business (PhD)

**College of Education**

- Educational Leadership (EdD)

**College of Health Sciences and Human Services**

- Pharmacy (PharmD) in cooperation with The University of Texas at Austin
- Rehabilitation Counseling (Ph.D.)

For more information on graduate programs, consult the Graduate Catalog.

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

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PAN AMERICAN

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## ADMISSION

### GENERAL INFORMATION

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



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

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

The University of Texas-Pan American  
Admissions and New Student Services  
Student Services Building, First Floor  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-2999 or 956/381-2203  
Voice/Telecommunications  
Device for the Deaf: 956/381-2215  
www.newstudent.utpa.edu

Required high school and/or college transcripts must be requested from each individual institution attended. These official transcripts must be sent by the institution directly to Admissions and New Student Services at the above address. Information regarding how test scores may be requested may be obtained from the University Testing Center, UTPA Annex, 2412 S. Closner, telephone 956/292-7585, e-mail testing@utpa.edu.

### ApplyTexas Application

In accordance with Sections 51.762 and 51.763 of the Texas Education Code, students have the opportunity to apply to any public institution in the state of Texas through a common application process. Please check with Admissions and New Student Services for full details.

### Application Deadlines

There are two admission application deadlines for each semester and summer session at the University. The first deadline is usually the first workday in February for both summer sessions and the fall semester or the first work day in November for the spring semester.

The second application deadline, usually about two weeks before the beginning of the semester, is for late registration. Specific deadline dates for each semester are listed in the Schedule of Classes and in the University Calendar in this catalog.

### Academic Fresh Start

Undergraduate Programs: An applicant for admission

who is a Texas resident may seek to enter this institution pursuant to the “Academic Fresh Start” statute, Texas Education Code, Section 51.931. When the applicant informs the Office of the Registrar in writing of the election, the institution for admissions purposes will not consider academic course credits or grades earned by the applicant 10 or more years prior to the starting date of the semester in which the applicant seeks to enroll. An applicant who makes the election to apply under this statute may not receive any course credit for courses taken 10 or more years prior to enrollment.

## UNDERGRADUATE ADMISSION

### Admission Documents Required

Applicants seeking admission are required to submit the following documents by the published deadline date to be considered for admission. Applications received after the published deadline date will automatically be processed for the next available semester.

1. Application for Admission.
2. Official College Transcripts from all colleges and universities attended. Transcripts must be sent directly from the institution(s) attended and may not be hand carried. Students who are currently enrolled at another institution should request a transcript to be sent with the coursework completed to date, followed by a final transcript to be sent upon completion of the current semester. Only coursework or degrees earned at an institution accredited by a regional accrediting association will be recognized. (For more information on accreditation, see the Glossary on page 355).
3. Texas Success Initiative (TSI) approved test scores or proof of exemption for students who plan to enroll in college-level coursework. Test scores from approved TSI exams or TSI exemption will not be used as a basis for admission, but will be used to determine placement. Refer to page 64 for further information.

Freshmen and transfer students who have less than 30 college-level hours must also submit:

4. ACT or SAT scores.
5. High school transcript showing the units completed, grades earned, date of graduation and rank in class. Admission may be tentatively granted on the basis of the first semester of the senior year.

In addition to current University requirements for admission, applicants must also have either:

1. Successfully completed the curriculum requirements for the recommended or Distinguished Achievement Plan or its equivalent; or
2. Satisfied ACT's College Readiness Benchmarks on the ACT assessment applicable to the applicant or earned on the SAT assessment a score of at least 1,500 out of 2,400 or the equivalent.

The above requirement may be satisfied if the applicant's official high school transcript or diploma states that the applicant completed the portion of the recommended or advanced curriculum or its equivalent that was available to the applicant, but was unable to complete the remainder of the curriculum solely because courses necessary to complete the remainder were unavailable to the applicant at the appropriate times in the applicant's high school career as a result of course scheduling, lack of enrollment capacity or another cause not within the applicant's control.

In accordance with Texas Education Code, Section 51.803(e), an applicant is entitled to automatic admission if he/she meets the UTPA minimum requirements and is a child of certain public servants who were killed or sustained fatal injury in the line of duty.

Admissions and New Student Services will make every effort to inform applicants of incomplete files. If incomplete applications are received within one month of the application deadline, there will not be sufficient time to notify applicants. Applicants will be issued a UTPA ID number to be used as a student identification number. Students may use the UTPA ID or their social security number when requesting information regarding their records.

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

### Notification of Admission Decisions

Admission decisions are made throughout the application period and announced as soon as possible. The decision may be to accept, accept conditionally pending completion of high school or current college enrollment, or to deny the application. Applicants who were accepted conditionally are required to submit final transcripts when that institution has transcribed all coursework and final grade calculations. New applicants accepted for admission are required to attend new student orientation prior to enrolling for courses.

Applicants who are not admitted may submit a written appeal to the Admissions Committee. Students should contact Admissions and New Student Services for deadlines to submit admission appeals.

### Suspected Fraudulent Admission Applications

Applicants for admission to The University of Texas-Pan American should be aware that the information

submitted will be relied upon by University officials to determine their status for admission and residency for tuition purposes. Failure to submit a complete and correct application, including all transcripts, is grounds for rejection of application, withdrawal of an offer of acceptance or, after enrollment, any disciplinary action including expulsion. Any applicant, whether a new student or a former student at the University, who has attended another collegiate institution is not at liberty to disregard any part of the collegiate records and apply for admission to UT Pan American on the basis of the high school record or a partial record of his or her college work, but is subject without exception to the regulations given above. Students who have course credit or grades earned 10 or more years ago may elect to be readmitted under the Academic Fresh Start program. See page 18 for more information.

### Freshman Admission

Applicants who have not attended a college or university after graduating from high school, or students transferring less than 30 academic college hours, may seek admission as a freshman. Freshmen will be accepted to The University of Texas-Pan American based on their high school class rank, high school curriculum, scores on the ACT or SAT exam, and GPA of all college work attempted (if applicable, refer to page 23 on Transfer Admission).

1. Top 10 Percent Applicants from Texas High Schools — Applicants who graduate from recognized public or private high schools in Texas with a class rank in the top 10 percent of their high school graduating class will be automatically admitted to The University of Texas-Pan American.\*
2. International Baccalaureate Diploma Program Recipients — applicants who receive an International Baccalaureate Diploma will be automatically admitted to The University of Texas-Pan American.\*

*\*While Top 10 percent or IB admission is automatic, the documents described above must be submitted by the admission deadline in order to take advantage of the automatic admission.*

3. Other Applicants-Entering freshmen who achieve the following standards may also be admitted to The University of Texas-Pan American.

### Applicants entering - Minimum Admission

Requirement: Fall 2009-Summer 2011

Minimum ACT composite of 17 (SAT of 810) and recommended Distinguished Achievement Plan or equivalent.\*

- A. One point below the current requirement and a rank within the top 33 percent of their graduating class.

**GENERAL INFORMATION**

B. Two points below the current requirement and a rank within the top 25 percent of their graduating class.

Fall 2011 and after Minimum ACT composite of 18 (SAT of 850) and Texas distinguished or recommended diploma or equivalent.\*

*\*Students graduating from a recognized high school from outside the state of Texas must have completed the following college preparatory coursework in addition to other credits required for graduation:*

- 4 years of college preparatory English.
- 4 years of mathematics to include Algebra, Geometry, Algebra II and advanced math.
- 4 years of science in Biology, Chemistry, or Physics.
- 3 1/2 years of Social Studies to include World History, World Geography, U.S. History Studies since reconstruction and U.S. Government.
- 2 years of the same foreign language.

The following recommended High School Curriculum will be phased-in as a requirement for regular admission beginning Fall 2007:

<b>English Language Arts</b>	<b>4 credits</b>
English I, II, III, IV	
• English I and II for speakers of other languages may be substituted for English I and II only for immigrant students with limited English proficiency.	
<b>Mathematics</b>	<b>4 credits</b>
Algebra I, Algebra II and Geometry Science	
<b>Science</b>	<b>4 credits</b>
Selected from four specified areas as indicated below. (No more than 1 credit may be chosen from each of the four areas.)	
• Integrated Physics and Chemistry	
• Biology, AP Biology or IB Biology	
• Chemistry, AP Chemistry or IB Chemistry	
• Physics, Principles of Technology I, AP Physics or IB Physics	
<i>Students are encouraged to take Biology, Chemistry and Physics.</i>	
<b>Social Studies</b>	<b>3 1/2 credits</b>
• World History Studies (1 credit)	
• World Geography Studies (1 credit)	
• U.S. History Studies Since Reconstruction (1 credit) and	
• U.S. Government (1/2 credit)	
<b>Economics</b>	<b>1/2 credit</b>
• With emphasis on the free enterprise system and its benefits	
<b>Physical Education</b>	<b>1 credits</b>

<b>Language other than English</b>	<b>2 credits</b>
2 credits must consist of Level I and Level II in the same language.	
<b>Fine Arts</b>	<b>1 Credit</b>
<b>Speech</b>	<b>1/2 credit</b>
<ul style="list-style-type: none"> <li>• Communication Applications</li> <li>• Speech Communication</li> <li>• Public Speaking</li> <li>• Debate or</li> <li>• Oral Interpretation</li> </ul>	
<b>Electives</b>	<b>6 credits</b>
Choose from Option I, Option II or Option III below.	
1. Option I: Mathematics, Science Elective	
A. Mathematics (1 credit) must be Precalculus.	
B. Science (1 credit) selected from:	
<ul style="list-style-type: none"> <li>• Integrated Physics and Chemistry</li> <li>• Biology, AP Biology or IB Biology</li> <li>• Environmental Systems, AP Environmental Science or IB Environmental Systems</li> <li>• Chemistry, AP Chemistry or IB Chemistry</li> <li>• Aquatic Science</li> <li>• Physics, AP Physics or IB Physics</li> <li>• Astronomy</li> <li>• Geology, Meteorology, and Oceanography</li> <li>• Scientific Research and Design</li> <li>• Anatomy and Physiology of Human Systems</li> <li>• Medical Microbiology</li> <li>• Pathophysiology</li> <li>• Principles of Technology I and II</li> </ul>	
C. Elective (1 1/2 credits)	
2. Option II: Career and Technology	
3 1/2 credits in a coherent sequence of courses for career and technology preparation.	
3. Option III: Academic	
3 1/2 credits in state approved courses in:	
<ul style="list-style-type: none"> <li>• Language Arts</li> <li>• Science</li> <li>• Social Studies</li> <li>• Mathematics</li> <li>• Languages other than English</li> <li>• Fine Arts or</li> <li>• Technology applications</li> </ul>	
<i>Advanced Placement (AP), International Baccalaureate (IB) or college courses may substitute.</i>	
<b>TOTAL</b>	<b>24 credits</b>

## GUERRA HONORS PROGRAM

The Rafael A. “Felo” and Carmen Guerra Honors Program (GHP) offers a means of enriching the college education of a select group of academically talented and highly motivated undergraduate students by providing special opportunities and challenges. Students in GHP attend special honors classes at the freshman and sophomore level and complete honors independent study courses related to their major field of study at the junior and senior level.

Entering freshmen are eligible to apply for admission to GHP in one of three ways:

*(Please note: These are minimum requirements and are not guarantees for admission.)*

1. Have a composite ACT score of 24 or higher (or SAT equivalent of 1110).
2. Graduate in the top 10 percent of their high school class.
3. Graduate from high school with a grade average of 90 or above in academic courses.

Students currently attending college may apply if they have earned 12 or more hours of college credit with a GPA of 3.3 or higher. College grades and recommendations from University professors will determine the student’s eligibility. A list of courses and other information about the University Honors Program are on page 21 and page 101 of this catalog.

Admission to The University of Texas-Pan American does not grant automatic admission into the University Honors Program. Students must apply directly to GHP and submit an Honors Admissions Portfolio. Contact the University Honors Program Office for additional information.

The Rafael A. “Felo” and Carmen Guerra Honors Program  
Social and Behavioral Sciences Building, Room 104  
The University of Texas-Pan American  
1201 West University Drive  
Edinburg, TX 78539-2999  
956/381-3461

## CONCURRENT ENROLLMENT PROGRAM FOR HIGH SCHOOL STUDENTS

UT Pan American sponsors two types of Concurrent Enrollment Programs, the High School to University Program (On-Campus Attendance or Distance Learning) and the Independent Student Program (On-Campus Attendance). Both programs are designed to give outstanding high school juniors and seniors an opportunity to earn college credit in a University learning environment. Concurrent Enrollment students are graded in the same manner as are other college students and are awarded college credit upon graduation from high school. Students who wish to receive dual credit (high school and college credit) must receive approval from their school districts for high school credit to be awarded.



Students who receive Concurrent Enrollment credit at UT Pan American may be eligible for the University Scholars Tiered Scholarship Program upon regular admission to the University. For more information about, see page 48 or contact the Scholarship Office at 956/381-2935.

### Application for Concurrent Enrollment Admission

To be admitted to Concurrent Enrollment, students must submit the following documents by the published deadline for the semester for which they are applying:

- Concurrent Enrollment Course Request Form (This document may be sent with the application or may be submitted subsequent to official admission to Concurrent Enrollment.)
- High school transcript sent directly from the high school showing completion of the sophomore year.
- ACT scores with a minimum composite of 22 [or equivalent SAT score of 1030].\*
- Scores fulfilling the Texas Success Initiative (TSI) sent directly from the testing agency, if required for the courses taken. Students will not be permitted to register or will be dropped if TSI requirements are not met. See page 64 for more information.

\* *Submission of ACT/SAT scores is optional for High School to University Program applicants.*

Concurrent Enrollment program documents are available for download at <http://hs2us.utpa.edu/ce>.

All admission documents for Concurrent Enrollment must be submitted to:

The University of Texas-Pan American  
High School to University Services  
Mailing address: 1201 W. University Dr.,  
Edinburg, TX 78539-2999

Physical address: UTPA Annex, Room 101, 2412 S. Closner  
Phone: 956/292-7570  
Fax: 956/292-7581  
E-mail: [ce@utpa.edu](mailto:ce@utpa.edu)

Concurrent Enrollment program documents are available for download at <http://hs2us.utpa.edu/ce>.

It is recommended that all documents be sent at one time. All documents submitted become the property of The University of Texas-Pan American.

Students must also meet the prerequisites for the course(s) in which they plan to enroll, if any exist. In order to continue in Concurrent Enrollment, participating students must earn a grade of C or higher in each University course taken.

Upon graduation from high school, Concurrent Enrollment students must submit a final high school transcript indicating:

1. The student is a graduate.
2. The student has earned at least 21 accredited high school units.
3. The student's class rank.

Concurrent Enrollment students who wish to continue their studies at UT Pan American after high school graduation will be readmitted as Entering Freshmen and will be invited to attend Freshman Orientation.

## ☪ THE HIGH SCHOOL TO UNIVERSITY PROGRAM

### On-Campus Attendance or Distance Learning

Although financial aid is not available for Concurrent Enrollment students, UT Pan American has formed partnerships with school districts participating in the High

School to University Program to make a wide range of University courses available at a reduced cost for qualified students. Interested students are encouraged to apply for this program through their high schools or school districts.

Admission Criteria for the High School to University Program:

1. ACT composite of 22 (SAT 1030) or top 10 percent class rank or 90 or above average in academic courses.\*
2. Recommendations from high school counselor and principal each semester of attendance.
3. Permission of parent or guardian.
4. Meet deadlines for Concurrent Enrollment admission.

## ☪ THE INDEPENDENT STUDENT PROGRAM

### On-Campus Attendance

Outstanding high school students may apply on an individual basis to take University courses. High school counselors are usually available to assist individual students in preparing their applications for admission to Concurrent Enrollment.

Admission Criteria for the Independent Student Program:

1. ACT composite of 22 (SAT 1030).
2. Top 10 percent class rank or 90 or above average in academic courses.\*
3. Recommendations from high school counselor and principal each semester of attendance.
4. Permission of parent or guardian.
5. Meet deadlines for Concurrent Enrollment admission.

\* *Academic average is based on grades in academic courses such as English, mathematics, foreign languages, natural sciences and social sciences. Non-academic courses such as physical education, music and vocational courses are not considered.*

## ☪ CONCURRENT ENROLLMENT HONORS PROGRAM

The Concurrent Enrollment Honors Program offers an exceptional educational experience for academically talented high school students. Benefits to program participants include small class sizes, innovative teaching techniques, individualized instruction, research opportunities, academic recognition and a wide variety of extracurricular activities. Honors courses are offered in a wide range of academic disciplines including English, history, political science, humanities, biology, statistics and others. Concurrent Enrollment Honors Program participants who continue their education at The University of Texas-Pan American after high school graduation have an opportunity to graduate from the University within the framework of the Honors Program.

Admission Criteria for the Concurrent Enrollment Honors Program:

In addition to meeting the criteria and submitting all documents required for regular admission to the Concurrent Enrollment Program, students must:

Complete a Concurrent Enrollment Honors Program application form

Have an ACT composite score of at least 22 (or the SAT equivalent of 1030).

Submit a personal narrative that:

- 1) Summarizes the important events in the student's life, giving particular attention to special interests and to any honors or awards received.
- 2) Gives the student's reasons for wanting to participate in the Concurrent Enrollment Honors program at UTPA.

Concurrent Enrollment Honors Program applicants must meet all regular application deadlines for Concurrent Enrollment. Because of limited seating in honors classes, students are encouraged to apply early.

## ☪ CONCURRENT ENROLLMENT SUMMER HOUSING PROGRAMS

Several summer residential programs are available for eligible Concurrent Enrollment students. Individuals selected for these programs receive room and board scholarships and have the added benefit of special informational sessions that cover topics related to applying for college and preparing for success in higher education. Additional benefits may exist depending upon the focus of the program. Call High School to University Services at 956/292-7570 for details.

## ☪ READMISSION

Students who last attended UT Pan American are admitted as Returning Students after an absence of at least one regular semester. To be admitted as a Returning Student, an applicant must be in good academic standing or have served his or her period of suspension (students will be readmitted on academic probation). Returning students must also clear any academic or financial holds before enrollment will be permitted.

If students seeking readmission were enrolled at other colleges or universities after last attending UTPA, a transfer admissions application must be submitted at [www.applytexas.org](http://www.applytexas.org). Official transcripts must also be provided to Admissions and New Student Services. A cumulative grade point average of 2.0 (on a 4.0 scale) is required on all academic coursework attempted (to include prior UTPA academic work).

It is recommended that students who are returning after an extended absence seek advising, either from an academic advisor, the Advisement Center or the Academic Advisement and Mentoring Center. Students with 60 or more hours should work with their academic advisor in their major

department to make any necessary updates to their degree plan.

Returning students who are not TSI exempt or who have not passed all sections of a TSI approved exam, must seek advising at the Advisement Center.

## ☪ Transfer Admission

Applicants who last attended an accredited college or university other than UT Pan American may seek admission as a transfer student by submitting their application at [www.applytexas.org](http://www.applytexas.org). Official transcripts must also be provided to Admissions and New Student Services. A cumulative GPA of 2.0 (on a 4.0 scale) is required on all academic coursework attempted. Students who are currently enrolled at another institution at the time of application will have their admission decision based on work completed at the time of application. In addition, the applicant must be in good academic standing at the transferring institution. Applicants transferring less than 30 hours must also meet Freshman Admission requirements (see page 23).

### Transfer of Undergraduate Credits

Transfer of regular academic credit to or recognition of degrees from another institution by UT Pan American involve at least three considerations:

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

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

Comparability of nature, content and level of transfer credit and the appropriateness and applicability of the credit earned to programs offered by UT Pan American are as important in the evaluation process as the accreditation status of the institution at which the transfer credit was awarded. Since accreditation does not address these questions, this information must be obtained from the catalog and other materials from the sending institution.

The University accepts transfer credit and recognizes degrees from both traditional and non-traditional education institutions that are accredited by regional accreditation

bodies in the United States. In cases where credits and degrees are awarded by non-traditional accredited institutions requiring no in-residence coursework, individual evaluation of transcripts must be made to determine credits for transfer. These evaluations will normally be made by the appropriate academic or administrative office.

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

Foreign institutions, in most cases, are chartered and authorized by their national governments, usually through a ministry of education. Although this provides for a standardization within a country, it does not produce useful information about comparability from one country to another. No other nation has a system comparable to the voluntary accreditation used in the United States. Please check with Admissions and New Student Services.

### Outreach to Prospective Transfer Students

In an effort to help facilitate the transfer process from two-year and four-year institutions to UTPA, several programs and resources have been established to assist transfer students.

UTPA currently offers articulation agreements with two-year institutions that assist students with course selections and course transferability. Following a degree/transfer plan maximizes the 66 transferable hours a student can take at a community college prior to transferring to UTPA.

### Colleges with Articulation Agreements with UTPA

South Texas College  
Laredo Community College  
Texas State Technical College  
Coastal Bend College  
Miami Dade Community College

In addition to the above mentioned degree/transfer plans, UTPA also provides a host of transfer resources on the UTPA Office of Admissions Web site [www.newstudent.utpa.edu](http://www.newstudent.utpa.edu). The online equivalency table [www.assist.utpa.edu](http://www.assist.utpa.edu) can assist transfer students in evaluating how their existing course credits might satisfy the requirements of a UTPA degree plan.

Finally, UTPA provides a transfer center with transfer specialists to assist prospective transfer students from two-year and four-year institutions. Transfer specialists provide admission requirements and basic academic advisement to all prospective transfer students.

For more information on transferring to UTPA, please visit the Undergraduate Admissions Web site at [www.newstudent.utpa.edu](http://www.newstudent.utpa.edu) or call 956/381-2999.

### Transfer Credit Guidelines

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

1. Bible Coursework: Exegetical or doctrinal courses in religion are not transferable. Courses in Bible of a historical or literary nature (but non-doctrinal) are transferable up to a maximum of 12 semester hours of lower-division credit.





2. **Incomplete Grades:** Incomplete grades are treated as F grades for the purpose of grade point average calculation.
  3. **Life Experience:** Normally, no credit will be awarded for life experience. Exception to this rule may include those cases where the credit has been validated either by another accredited institution of higher education, or by a test administered by an academic department and approved by the Office of the Provost.
  4. **Remedial Courses:** Sub-college courses such as remedial reading, developmental reading, speed reading, remedial science and orientation are not transferable for credit.
  5. **Terminal Courses:** Terminal courses offered at many junior colleges are not offered for the purpose of transfer to senior colleges and usually are clearly labeled in the college catalog as being non transferable. Examples of terminal courses are auto mechanics, machine shop, electricity, data processing and welding.
  6. **Vocational/Technical Courses:** Drill or skill courses such as filing methods and vocational or technical training courses such as shop courses, welding, carpentry, plumbing and masonry are not transferable.
  7. **Second Undergraduate Degrees:** Transfer students entering with a bachelor's degree who seek a second undergraduate degree from UT Pan American must officially request that an evaluation of credits be completed by Admissions and New Student Services. Completion of a baccalaureate degree at another accredited institution will fulfill The University of Texas-Pan Americans general education (core curriculum) requirements exclusive of any state specified coursework. Students will be required to complete the Texas state-mandated coursework in U.S. history and political science if this has not already been completed as part of their first degree. Students must also complete any other University and departmental requirements for the second degree as stipulated in the catalog.
- a. of higher education, that institution shall give written notice to the student and the other institution that the transfer of the course credit is denied.
  - b. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Coordinating Board rules and/or guidelines.
  - c. If the transfer dispute is not resolved to the satisfaction of the student or the institution at which the credit was earned within 45 days after the date the student received written notice of the denial, the institution that denies the transfer of the course credit shall notify the commissioner of higher education of its denial and the reason for the denial.
3. The commissioner or the commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
  4. All Texas public institutions of higher education shall furnish data to the Coordinating Board on reported transfer disputes as the board may require in accordance with its statutory responsibilities under Section 61.826(e) of the Texas Education Code.

## ☪ Texas Common Course Numbering System

The Texas Common Course Numbering System (TCCNS) has been designed to aid students in the transfer of general academic courses between colleges and universities throughout Texas. Common courses are freshman and sophomore academic credit courses that have been identified as common by institutions that are members of the TCCNS. The system ensures that if the student takes courses that the receiving institution has designated as common, then the courses will be accepted in transfer.

The table on pages 27-29 lists the courses UT Pan American has identified as common and their TCCNS equivalents. Before using this table, students should be sure that the institution they attend employs the TCCNS. Course availability varies from institution to institution.

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

Admissions and New Student Services at UT Pan American must receive an official transcript directly from the registrar's office of the institution attended before credit can be transferred. (See section on Transfer of Undergraduate Credits on page 23 for complete transfer of course credit regulations.)

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

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

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

## Distance Learning Courses

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

For further information, contact the course instructor, visit the Center for Distance Learning Web site at [cdl.utpa.edu](http://cdl.utpa.edu) or call the center at 956/381-2979.

## UT TeleCampus Courses

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

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



# Texas Common Course Numbering System 2009-2011

## TCCNS Courses Offered

### Texas Common Course

ACCT	2301	Principles of Accounting I-Financial
ACCT	2302	Principles of Accounting II-Managerial
ANTH	2302	Introduction to Archaeology
ANTH	2346	General Anthropology
ARTS	1301	Art Appreciation
ARTS	1303	Art History I
ARTS	1304	Art History II
ARTS	1311	Design I (2-Dimensional)
ARTS	1312	Design II (3-Dimensional)
ARTS	1316	Drawing I
ARTS	1317	Drawing II
ARTS	2316	Painting I
ARTS	2317	Painting II
ARTS	2326	Sculpture I
ARTS	2333	Printmaking I
ARTS	2341	Art Metals I
ARTS	2346	Ceramics I
ARTS	2348	Digital Art I
BCIS	1305	Business Computer Applications
BIOL	1406	Biology for Science Majors I
BIOL	1407	Biology for Science Majors II
BIOL	2306	Environmental Biology
BIOL	2401	Anatomy & Physiology I
BIOL	2402	Anatomy & Physiology II
BIOL	2428	Vertebrate Zoology
BUSI	1301	Business Principles
CHEM	1111	General Chemistry I (Lab)
CHEM	1112	General Chemistry II (Lab)
CHEM	1305	Introductory Chemistry I
CHEM	1311	General Chemistry I
CHEM	1312	General Chemistry II
CHEM	2101	Analytical Chemistry Lab I
CHEM	2123	Organic Chemistry Lab I
CHEM	2125	Organic Chemistry Lab II
CHEM	2301	Analytical Chemistry I
CHEM	2323	Organic Chemistry I
CHEM	2325	Organic Chemistry II
COMM	1318	Photography I (Journalism emphasis)
COMM	1335	Survey of Radio/Television
COMM	1336	Television Production I
COSC	1300	Introduction to Computing
COSC	1319	ASSEMBLY Language Programming I
COSC	1330	Computer Programming
COSC	2318	PASCAL Programming II
CRIJ	1301	Introduction to Criminal Justice
CRIJ	1306	Court Systems & Practices
CRIJ	1307	Crime in America
CRIJ	1310	Fundamentals of Criminal Law
CRIJ	1313	Juvenile Justice System
CRIJ	2313	Correctional Systems & Practices
CRIJ	2314	Criminal Investigation
CRIJ	2323	Legal Aspects of Law Enforcement
CRIJ	2328	Police Systems & Practices

### UTPA Course Equivalent

ACC	2301	Introduction to Financial Accounting
ACC	2302	Fundamentals of Managerial Accounting
ANTH	1342	Introduction to Archaeology
ANTH	1323	Introduction to Cultural Anthropology
ART	1301	Art Appreciation
ART	2351	Art Survey I
ART	2352	Art Survey II
ART	1331	Design I
ART	2332	Design II
ART	1311	Drawing I
ART	2312	Drawing II
ART	2321	Painting I
ART	2322	Painting II
ART	2341	Sculpture I
ART	2361	Printmaking I
ART	2303	Jewelry/Metalworking I
ART	2371	Ceramics I
ART	1332	Digital Typography
CIS	1301	Computer Information Systems
BIOL	1401	General Biology
BIOL	1402	General Biology
BIOL	2305	Environmental Biology
BIOL	2403	Anatomy & Physiology
BIOL	2404	Anatomy & Physiology
BIOL	2402	Comparative Vertebrate Anatomy
MANA	1331	Introduction to Business
CHEM	1101	General Chemistry Lab I
CHEM	1102	General Chemistry Lab II
CHEM	1300	Introduction to Chemistry
CHEM	1301	General Chemistry I
CHEM	1302	General Chemistry II
CHEM	2101	Analytical Chemistry Lab
CHEM	2102	Organic Chemistry Lab I
CHEM	2103	Organic Chemistry Lab II
CHEM	2301	Analytical Chemistry
CHEM	2302	Organic Chemistry I
CHEM	2303	Organic Chemistry II
COMM	1308	Photography
COMM	1315	Survey Of Radio/TV Broadcast/Cable
COMM	2304	Television Production
CSCI	1300	Foundations of Modern Information Technology
CSCI	2333	Computer Organization & Assembly Language
CSCI	1380	Computer Science I
CSCI	2380	Computer Science II
CRIJ	1301	Intro to Law Enforcement
CRIJ	1306	Court Systems & Practices
CRIJ	1307	Crime in America
CRIJ	1310	Fundamentals Of Criminal Law
CRIJ	1313	Juvenile Justice System
CRIJ	2313	Correctional Systems & Practices
CRIJ	2314	Criminal Investigation
CRIJ	2323	Legal Aspects of Law Enforcement
CRIJ	2328	Police Systems & Practices

GENERAL INFORMATION

DANC	1110	Tap I	DANC	2110	Tap Dance I
DANC	1112	Dance Practicum I	DANC	2112	Dance Performance: Beginning/ Intermediate
DANC	1141	Ballet I	DANC	2144	Ballet Technique: Pointe I
DANC	1147	Jazz Dance I	DANC	2120	Jazz Dance I
DANC	1151	Dance Performance I	KIN	1160	Performance Dance-Folkloric
DANC	1152	Dance Performance II	KIN	1161	Performance Dance-Dance Ensemble
DANC	1241	Ballet I	KIN	2236	Ballet
DANC	1245	Modern Dance I	KIN	2226	Modern Dance
DANC	1247	Jazz Dance I	KIN	2230	Modern Jazz Dance
DANC	2303	Dance Appreciation I	DANC	2323	Dance Appreciation
DRAM	1310	Introduction to Theater	COMM	2312	Theatre Appreciation
DRAM	1341	Makeup	COMM	2319	Make-Up
DRAM	1342	Introduction to Costume	COMM	2320	Costume Technology
DRAM	1351	Acting I	COMM	1305	Acting I
DRAM	1352	Acting II	COMM	2306	Acting II
ECON	1301	Introduction to Economics	ECON	1301	Introduction to Economics
ECON	2301	Principles of Macroeconomics	ECON	2301	Principles of Economics I
ECON	2302	Principles of Microeconomics	ECON	2302	Principles of Economics II
EDUC	1301	Introduction to the Teaching Profession	EDCI	1301	Introduction to the Teaching Profession
ENGL	1301	Composition I	ENG	1301	Composition
ENGL	1302	Composition II	ENG	1302	Rhetoric
ENGL	2321	British Literature (1 semester course)	ENG	2305	Introduction to British Literature
ENGL	2326	American Literature (1 semester course)	ENG	2303	Introduction to American Literature
ENGL	2331	World Literature (1 semester course)	ENG	2307	Introduction to World Literature
ENGL	2341	Forms of Literature (1 semester course)	ENG	2300	Introduction to Literature
ENGR	1101	Introduction to Engineering I	ENGR	1101	Introduction To Engineering
ENGR	2301	Engineering Mechanics I-Statics	MECE	2303	Statics
ENGR	2302	Engineering Mechanics II-Dynamics	MECE	2304	Dynamics
FREN	1311	Beginning French I	FREN	1321	Beginning French I
FREN	1312	Beginning French II	FREN	1322	Beginning French II
FREN	2311	Intermediate French I	FREN	2321	Intermediate French I
FREN	2312	Intermediate French II	FREN	2322	Intermediate French II
GEOG	1300	Principles of Geography (1 semester course)	GEOG	2313	Principles of Physical Geography
GEOL	1403	Physical Geology	GEOL	1401	Physical Geology
GEOL	1404	Historical Geology	GEOL	1402	Historical Geology
GERM	1311	Beginning German I	GERM	1331	Beginning German I
GERM	1312	Beginning German II	GERM	1332	Beginning German II
GERM	2311	Intermediate German I	GERM	2331	Intermediate German I
GERM	2312	Intermediate German II	GERM	2332	Intermediate German II
GOVT	2301	American Government I (Combined Fed & State/inc Const)	POLS	2313	United States & Texas Government & Politics
GOVT	2302	American Government II (Combined Fed & State)	POLS	2314	United States & Texas Government & Politics
GOVT	2304	Introduction to Political Science	POLS	1333	Introduction To Political Science
HIST	1301	United States History I	HIST	2313	American Heritage I
HIST	1302	United States History II	HIST	2314	American Heritage II
HIST	2311	Western Civilization I	HIST	2331	Civilization Through The Centuries
HIST	2312	Western Civilization II	HIST	2332	Civilization Through The Centuries
MATH	1314	College Algebra	MATH	1340	College Algebra
MATH	1324	Math for Business & Social Sciences I (Finite Mathematics)	MATH	1341	Business Algebra
MATH	1325	Math for Business & Social Sciences II (Business Calculus)	MATH	1342	Business Calculus
MATH	1332	Contemporary Mathematics I	MATH	1348	Contemporary Mathematics
MATH	1342	Elementary Statistical Methods	MATH	2330	Survey Of Elementary Statistics
MATH	2412	Precalculus Math	MATH	1450	Precalculus with Trigonometry
MATH	2413	Calculus I	MATH	1460	Calculus I
MATH	2414	Calculus II	MATH	1470	Calculus II
MATH	2415	Calculus III	MATH	2401	Calculus III
MUSI	1157	Opera Workshop I	MUS	1109	Opera Workshop
MUSI	1188	Percussion Class I	MUS	2122	Class Percussion
MUSI	1190	String Class I	MUS	2125	Class Strings

MUSI	1306	Music Appreciation
MUSI	1308	Music Literature I
MUSI	1311	Music Theory I
MUSI	1312	Music Theory II
MUSI	2166	Woodwind Class III
MUSI	2168	Brass Class II
PHED	1301	Introduction to Physical Fitness & Sport
PHED	1306	First Aid
PHED	1346	Drug Use & Abuse
PHED	2255	Water Safety
PHIL	1301	Introduction to Philosophy
PHIL	2303	Introduction to Logic
PHIL	2306	Introduction to Ethics
PHIL	2307	Introduction to Social & Political Philosophy
PHYS	1401	College Physics I
PHYS	1402	College Physics II
PHYS	1411	Introductory Astronomy I
PHYS	1412	Introductory Astronomy II
PHYS	1415	Physical Science I
PHYS	1417	Physical Science II
PHYS	2125	University Physics Lab I
PHYS	2126	University Physics Lab II
PHYS	2325	University Physics I
PHYS	2326	University Physics II
PHYS	2425	University Physics I
PHYS	2426	University Physics II
PSYC	2301	General Psychology
PSYC	2317	Statistical Methods in Psychology
SGNL	1301	Beginning American Sign Language I
SGNL	1302	Beginning American Sign Language II
SOCI	1301	Introductory Sociology
SOCI	1306	Social Problems
SOCI	2301	Marriage & The Family
SOCW	2361	Introduction to Social Work
SOCW	2362	Social Welfare as a Social Institution
SPAN	1311	Beginning Spanish I
SPAN	1312	Beginning Spanish II
SPAN	2311	Intermediate Spanish I
SPAN	2312	Intermediate Spanish II
SPAN	2313	Spanish for Native/Heritage Speakers I
SPAN	2315	Spanish for Native/Heritage Speakers II
SPCH	1311	Introduction to Speech Communication
SPCH	1315	Public Speaking
SPCH	1318	Interpersonal Communication
SPCH	2341	Oral Interpretation

MUS	1307	Music Appreciation
MUS	2301	Music Literature
MUS	2212	Music Theory I
MUS	2214	Music Theory II
MUS	2124	Class Woodwinds
MUS	2123	Class Brass
KIN	1351	Introduction to Kinesiology
HLTH	1354	Safety & First Aid
HLTH	2371	Health Problems in the Use of Alcohol & Narcotics
KIN	2281	Water Safety Instruction
PHIL	1310	Introduction to Philosophy
PHIL	1320	Introduction to Logic
PHIL	2330	Ethics
PHIL	2350	Introduction to Social and Political Philosophy
PHYS	1401	General Physics I
PHYS	1402	General Physics II
ASTR	1401	General Astronomy
ASTR	1402	General Astronomy
PSCI	1421	Physical Science I
PSCI	1422	Physical Science II
PHYS	1101	Intermediate Laboratory
PHYS	2101	Intermediate Laboratory
PHYS	2301	University Physics I
PHYS	2302	University Physics II
PHYS	2401	Physics for Scientists & Engineers I
PHYS	2402	Physics for Scientists & Engineers II
PSY	1310	Introduction to Psychology
PSY	2401	Basic Statistics for Psychologists
COMD	1310	Beginning Sign Language
COMD	1320	Intermediate Sign Language
SOC	1313	Principles of Sociology
SOC	1323	Current Social Issues
SOC	2333	Marriage & The Family
SOCW	1313	Introduction to the Social Work Profession
SOCW	2314	The Social Welfare Institution
SPAN	1301	Beginning Spanish
SPAN	1302	Beginning Spanish
SPAN	2307	Intermediate Spanish for Native Speakers
SPAN	2308	Intermediate Spanish for Native Speakers
SPAN	1303	Beginning Spanish
SPAN	1304	Beginning Spanish
COMM	1302	Introduction to Communication
COMM	1303	Presentation Speaking
COMM	2315	Interpersonal Communication
COMM	1310	Oral Interpretation



## ▲ INTERNATIONAL ADMISSION

An applicant is considered an international student if the applicant is not a citizen of the United States or does not hold permanent resident alien status. All required documents must be on file in the Office of Admissions and New Student Services no later than 60 days prior to the beginning of the semester.

International students must not only meet standard admission requirements, but must also submit the following documents:

1. International Student Application for Admission.
2. Test of English as a Foreign Language (TOEFL) scores or other acceptable exam. Students from countries whose native language is not English will be expected to take the TOEFL. TOEFL scores must be sent directly from the Educational Testing Service. UT Pan American will not accept residual TOEFL exams taken at another institution. Students scoring below 500 (173 for computer-based tests) on the TOEFL will be denied admission. Undergraduate students scoring between 500 and 550, but otherwise meeting department requirements, will be required to take prescribed courses in English. IELTS exam will also be accepted with a minimum of a 5.0 score.
3. Proof of sufficient funds to pay for one year of educational and living expenses. This may be proved through financial documents and bank statements showing specific dollar amounts available.
4. English translation and evaluation of educational records. In addition to the official transcripts required for admission, certified English translation must be included to allow for accurate interpretations. NOTE: See application.
5. Purchase of Mandatory Medical Insurance from the University. Medical insurance is required each semester of attendance with minimum coverage as follows: Major Medical, \$50,000; Medical Evacuation, \$10,000; and Repatriation of Remains, \$7,500. Medical insurance will be automatically billed at the beginning of each semester and must be maintained throughout your time at our University unless proof of adequate insurance is provided to the international student advisor by the official census date for the semester (refer to the University calendar for published census dates). Refunds will not be generated for students who obtain or submit proof of insurance after the census date.

## Procedure After Admission — Issuance of I-20

Upon completion of the application process, successful applicants will be issued an I-20 by the international student advisor, who is the University's designated official to report the status of international students to the U.S. Citizenship and Immigration Services (USCIS). Students must then present the I-20 to the American Consulate in their home country to obtain a visa.

International students are required to report any change in status immediately to the International Student Advisement Office, located in UC 113 on the first floor of the University Center Building, 956/381-2922, <http://www.utpa.edu/dept/isa/>.

SEVIS: (Student and Exchange Visitor Information System) is an Internet-based system that allows schools and the Department of Homeland Security (immigration agencies) to exchange data on the visa status and activities of international students. Accurate and current information is transmitted electronically throughout an F-1 and J-1 student's academic year in the United States. U.S. Ports of Entry, U.S. Embassies and consulates also have access to SEVIS. Schools are now required to report immediately to U.S. Immigration and Customs Enforcement any violations of immigration regulations. The designated school official is then required to terminate the student's visa status in SEVIS. Students who violate any immigration regulations are subject to arrest, fines and/or deportation.

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

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

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

Transfer: A non-immigrant student is permitted to transfer to a different school provided the transfer procedure is followed. Please contact the International Student Advisement Office for information on transfer procedures.

Extension of Stay: If the student cannot complete the educational program in the time indicated on the I-20, the student must apply for extension of stay. An application for

extension of stay should be filed with the International Student Advisement Office at least 30 days but no more than 60 days before the expiration of the student's stay. Extensions are granted under limited conditions.

### ▲ SPECIAL STUDENTS

A student holding a bachelor's degree from an accredited institution who does not wish to enter a graduate program may be permitted to register as a "Special Student" in one of the undergraduate colleges and is subject to all rules and regulations of that college.

Special Students seeking professional improvement are only required to have an official transcript showing the awarding of a bachelor's degree (or higher) sent from the awarding institution. Special Students seeking teaching certification or a second bachelor's degree are required to have transcripts sent from all institutions attended. (A request for a second degree evaluation form must be completed at Admissions and New Student Services for students seeking additional bachelor's degrees. For more information, see page 64.)

Special graduate students are those holding a master's degree from an accredited institution who do not wish to enter a graduate program. For more information, consult the Graduate Catalog.

### ▲ GRADUATE ADMISSION

Graduate admission is addressed in detail in the Graduate Catalog.

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

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

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

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

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

## FISCAL POLICIES

### ▲ GENERAL INFORMATION

The cost of attending The University of Texas-Pan American is relatively low — approximately \$2,280 per semester for 12 hours of required tuition and fees for an undergraduate resident of Texas. The student financial aid program offering part-time employment, scholarships, grants and loans assists most students at UT Pan American in meeting the costs of attending college. (For more information on financial aid, see the Financial Assistance section on page 43 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 a class or laboratory until all their fees have been paid. (Exception: See Payment by Installment on page 37.)

Other charges are due within 10 days after a bill is rendered by the University, or according to the special payment instructions that may be printed on the bill. Failure to pay the amount owed in the allotted time can result in the withholding of registration privileges, official transcripts, grades and degrees, 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.

### ▲ TUITION AND FEE STUDENT BILL

Tuition and Fees Bill Statements are sent once a semester two weeks prior to the first tuition due date. Students are responsible for verifying their student account before every tuition due date in order to make sure there is no outstanding balance. UTPA is required to set aside a portion of a student's designated tuition to provide financial assistance. Effective Spring 2010 the specific amount required to be set aside in accordance with the uniform standards prescribed by the Commissioner has been added to the Student Bill in

compliance to the provision enacted by the State of Texas (Texas Education Code Subchapter B, Chapter 56, Section 56.014)

**RESIDENCY CLASSIFICATION FOR TUITION PURPOSES**

The Office of Admission and New Student Services is responsible for determining residency status of new students for purposes of tuition. The Office of the Registrar is responsible for determining residence status of current 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 a foreign student who is a citizen from another country.

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

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 an alien who is not a permanent resident of the United States or has not been permitted by Congress to adopt the United States as his or her domicile. 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 students 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

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

Office of the Registrar  
 Student Services Building, First Floor  
 1201 W. University Drive  
 Edinburg, TX 78539-2999  
 Telephone Number: 956/381-2732 or 956/381-2209

**EXCESS CREDIT HOURS**

**45-Hour Rule and 30-Hour Rule**

The State of Texas has enacted legislation regarding funding for excess undergraduate credit hours (Texas Education Code Chapter 61, Subchapter C, Section 61.0595). As a result of this legislation, funding will not be provided to state institutions of higher education for students exceeding the minimum number of hours required for completion of their degree program.

- **30-Hour Rule:** Students initially enrolled as undergraduates in an institution of higher education beginning the Fall 2006 semester and subsequent semesters may not exceed 30 hours more than the minimum number required for the completion of their degree program.
- **45-Hour Rule:** Students initially enrolling as undergraduates in an institution of higher education beginning the Fall 1999 semester, but no later than the 2006 summer semester, may not exceed 45 hours more than the minimum number required for completion of their degree program.
- **Exemption:** Students who enrolled as undergraduates in an institution of higher education prior to the 1999 Fall semester are exempt from this legislation.

Since funding will not be provided by the State, and as permitted by State law (Texas Education Code Chapter 54, Section 54.014), in addition to resident tuition UTPA will charge an Excess Credit Hour fee to all students who exceed the semester credit hour limit of their program as follows:

The semester hours counted toward the excessive credit hour calculation include all hours attempted by the student except:

- Semester credit hours earned by the student before receiving a baccalaureate degree that has been previously awarded.
- Semester credit hours earned by examination or other procedure by which credit is earned without registering for a course for which tuition is charged.
- Developmental education (remedial) courses, technical courses, workforce education courses funded according to contact hours, or other courses that would not generate academic credit that could



be applied toward a degree at The University of Texas-Pan American.

- Semester credit hours earned at a private or out-of-state institution.
- Hours not eligible for formula funding.

If you have questions about your tuition and fees under this policy, contact the Registration Accountant at 956/381-2713.

Students with academic questions are encouraged to contact a Student Development Specialist in the University Retention and Advisement Program at 956/381-2319.

### THREE-PEAT RULE

The 78th Texas legislature passed a law that withholds funding from the University when a student enrolls in the same course for three or more times. The intent is to reduce the time that students take to graduate. Since funding will not be provided by the state, and as permitted by state law (Texas Education Code Chapter 54, Section 54.014), in addition to resident tuition UTPA charges a Three-Peat fee of \$100 per credit hour fee for “three-peat” courses.

The semester hours counted toward the three-peat calculation include all hours attempted by the student except:

- Courses taken prior to Fall 2002.
- Courses dropped prior to the official census date for the semester.
- Dissertation, thesis, seminar, independent study and special topics courses.
- Courses taken at institutions other than UTPA.

If a student has have questions about his or her tuition and fees under this policy, contact the registration accountant at 956/381-2713.

Students with academic questions are encouraged to contact the University Center Advisement Center at 956/381-2529 or the Academic Advisement and Mentoring Center at 956/316-7121.

### EXCESSIVE DEVELOPMENTAL COURSE HOURS

Students may enroll in 18 hours of developmental courses (Math 1300, 1334; Eng 1310, 1320) without penalty; students enrolling in more than 18 hours of developmental courses will, in addition to resident tuition, be assessed as permitted by State law (Texas Education Code Chapter 54, Section 54.014) an additional Excessive Developmental Course Hour fee of \$100 per credit hour for these courses.

The semester hours counted toward the Excessive Developmental Course calculation include all developmental hours attempted by the student except:

- Courses taken prior to Fall 2002.
- Courses dropped prior to the official census date for the semester.
- Courses taken at institutions other than UTPA.

If a student has questions about his or her tuition and fees under this policy, contact the registration accountant at 956/381-2713.

Students with academic questions are encouraged to contact the University Center Advisement Center at 956/381-2529.

*\* Texas Education Code, 54.504 - Incidental Fees and 55.16 Board Responsibility authorizes the governing board to fix and collect fees and charges. The averages are not given for college and course related fees (laboratory, incidental, supplemental/individual fees) since charges vary according to academic program and courses; actual fees are published in the institutional catalog and/or other publications. A summary description of these fees and the optional student fees may be found in The University of Texas-Pan American Catalog.*

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

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

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

### ▲ TUITION AND MANDATORY FEES

Tuition, fees and charges are assessed to students based on semester credit hours, charges per semester or specific services. Tuition and fees are subject to change by legislative or regental action and become effective when 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. The 78<sup>th</sup> Legislature in House Bill 3015 authorized The University of Texas Board of Regents to charge student designated tuition in any amount necessary for the effective operation of the institution effective Sept. 1, 2003. Texas Education Code Sections 54.504 and 55.16 authorizes the governing board to fix and collect fees and charges.

Shown in the Fee Tables on pages 34-35 are the required tuition and fees charged each semester:

- *Tuition:* 2009-2010 is \$50 per semester credit hour for resident undergraduate students and \$327 per semester credit hour for all nonresident undergraduate students and in 2010-2011 is \$50 and \$327, respectively.
- *Tuition Designated Charge:* 2009-2010 is \$97 per semester credit hour, with a maximum of \$1,358 per semester, for all undergraduate students.

**2009-2010 Tuition & Fee Table**

**Fall/Spring**

Sem. Credit Hours	Resident of Texas		Nonresident Student	
	Undergrad	Graduate	Undergrad	Graduate
1	340.45	370.15	617.45	647.15
2	516.80	601.20	1,070.80	1,155.20
3	693.15	832.25	1,524.15	1,663.25
4	869.50	1,063.30	1,977.50	2,171.30
5	1,045.85	1,294.35	2,430.85	2,679.35
6	1,222.20	1,525.40	2,884.20	3,187.40
7	1,398.55	1,756.45	3,337.55	3,695.45
8	1,574.90	1,987.50	3,790.90	4,203.50
9	1,751.25	2,218.55	4,244.25	4,711.55
10	1,927.60	2,449.60	4,697.60	5,219.60
11	2,103.95	2,680.65	5,150.95	5,727.65
12	2,280.30	2,911.70	5,604.30	6,235.70
13	2,456.65	3,142.75	6,057.65	6,743.75
14	2,633.00	3,373.80	6,511.00	7,251.80
15	2,712.35	3,503.15	6,867.35	7,658.15
16	2,791.70	3,632.50	7,223.70	8,064.50
17	2,871.05	3,761.85	7,580.05	8,470.85
18	2,948.40	3,889.20	7,934.40	8,875.20
19	3,013.75	4,004.55	8,276.75	9,267.55
20	3,079.10	4,119.90	8,619.10	9,659.90

*Each Additional hour add:*

65.35	115.35	342.35	392.35
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**Summer Sessions**

1	261.40	303.60	538.40	580.60
2	436.80	533.70	990.80	1,087.70
3	614.10	765.70	1,445.10	1,596.70
4	790.45	996.75	1,898.45	2,104.75
5	966.80	1,227.80	2,351.80	2,612.80
6	1,143.15	1,458.85	2,805.15	3,120.85
7	1,319.50	1,689.90	3,258.50	3,628.90
8	1,495.85	1,920.95	3,711.85	4,136.95
9	1,671.20	2151	4,164.20	4644
10	1,833.55	2,368.05	4,603.55	5,138.05
11	1,995.90	2,585.10	5,042.90	5,632.10
12	2,158.25	2,802.15	5,482.25	6,126.15
13	2,320.60	3,019.20	5,921.60	6,620.20
14	2,482.95	3,236.25	6,360.95	7,114.25

*Each Additional hour add:*

162.35	217.05	439.35	494.05
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**2010-2011 Tuition & Fee Table**

**Fall/Spring**

Sem. Credit Hours	Resident of Texas		Nonresident Student	
	Undergrad	Graduate	Undergrad	Graduate
1	340.45	370.15	617.45	647.15
2	516.80	601.20	1,070.80	1,155.20
3	693.15	832.25	1,524.15	1,663.25
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5	1,045.85	1,294.35	2,430.85	2,679.35
6	1,222.20	1,525.40	2,884.20	3,187.40
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9	1,751.25	2,218.55	4,244.25	4,711.55
10	1,927.60	2,449.60	4,697.60	5,219.60
11	2,103.95	2,680.65	5,150.95	5,727.65
12	2,280.30	2,911.70	5,604.30	6,235.70
13	2,456.65	3,142.75	6,057.65	6,743.75
14	2,633.00	3,373.80	6,511.00	7,251.80
15	2,712.35	3,503.15	6,867.35	7,658.15
16	2,791.70	3,632.50	7,223.70	8,064.50
17	2,871.05	3,761.85	7,580.05	8,470.85
18	2,948.40	3,889.20	7,934.40	8,875.20
19	3,013.75	4,004.55	8,276.75	9,267.55
20	3,079.10	4,119.90	8,619.10	9,659.90

*Each Additional hour add:*

65.35	115.35	342.35	392.35
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2	436.80	533.70	990.80	1,087.70
3	614.10	765.70	1,445.10	1,596.70
4	790.45	996.75	1,898.45	2,104.75
5	966.80	1,227.80	2,351.80	2,612.80
6	1,143.15	1,458.85	2,805.15	3,120.85
7	1,319.50	1,689.90	3,258.50	3,628.90
8	1,495.85	1,920.95	3,711.85	4,136.95
9	1,671.20	2151	4,164.20	4644
10	1,833.55	2,368.05	4,603.55	5,138.05
11	1,995.90	2,585.10	5,042.90	5,632.10
12	2,158.25	2,802.15	5,482.25	6,126.15
13	2,320.60	3,019.20	5,921.60	6,620.20
14	2,482.95	3,236.25	6,360.95	7114.25

*Each Additional hour add:*

162.35	217.05	439.35	494.05
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## TUITION &amp; FEE DISCLOSURE FOR TEXAS RESIDENTS

Charge	Undergraduate		Graduate	
	12 SCH	15 SCH	9 SCH	Comments
Tuition (Texas Resident)	600.00	750.00	900.00	\$50/SCH-UG, \$100/SCH-Grad.***
Tuition (Non-Resident)	3,924.00	4,905.00	3,393.00	\$327/SCH-UG, \$377/SCH-Grad.***
Plus: Designated Tuition	1,164.00	1,358.00	915.30	\$97.00/SCH-UG, \$1,358.00 max-UG*** \$101.70/SCH-GR, \$1,423.80 max-GR
Utility Fee	34.20	42.75	25.65	\$2.85/SCH
Registration/Matriculation Fee	10.00	10.00	10.00	\$10 per semester
Student Service Fee	168.00	210.00	126.00	\$14.00/SCH, \$250.00 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
IT Access Fee	123.00	153.75	92.25	\$10.25/SCH***
Library Technology Fee	27.00	33.75	20.25	\$2.25/SCH
Medical Service Fee	23.10	23.10	23.10	\$23.10 per semester***
Student Union Fee	30.00	30.00	30.00	\$30 per semester
Recreation Fee	75.00	75.00	75.00	\$75 per semester
Undergraduate Advisement Fee	25.00	25.00	-	\$25.00 per semester (Undergrad. students only)***
Subtotal-Required Fees	1,680.30	1,962.35	1,318.55	
Average Incidental Fees	-	-	-	
Total Tuition & Fees (Texas Resident)	2,280.30	2,712.35	2,218.55	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	5,604.30	6,867.35	4,711.55	Total for Non-Resident

**(Summer)**

Charge	Undergraduate		Graduate	
	6 SCH	9 SCH	6 SCH	Comments
Resident Tuition	300.00	450.00	600.00	\$50/SCH-UG, \$100/SCH-Grad.
Non-Resident Tuition	1,962.00	2,943.00	2,262.00	\$327/SCH-UG, \$377/SCH-Grad.
Plus: Designated Tuition	582.00	873.00	582.00	\$97.00/SCH-UG, \$1,358.00 max-UG*** \$101.70/SCH-GR, \$1,423.80 max-GR
Utility Fee	17.10	25.65	17.10	\$2.85/SCH
Registration/Matriculation Fee	10.00	10.00	10.00	\$10 per semester
Student Service Fee	84.00	125.00	84.00	\$14.00/SCH, \$125.00 max
International Education Fee	1.00	1.00	1.00	\$1 per semester
IT Access Fee	61.50	92.25	61.50	\$10.25/SCH
Library Technology Fee	13.50	20.25	13.50	\$2.25/SCH
Medical Service Fee	11.55	11.55	11.55	\$11.55 per semester
Student Union Fee	15.00	15.00	15.00	\$15 per semester
Recreational Fee	35.00	35.00	35.00	\$35 per semester
Undergraduate Advisement Fee	12.50	12.50	-	\$12.50 per semester (Undergraduate students only)
Subtotal-Required Fees	843.15	1,221.2	830.65	
Average Incidental Fees				
Total Tuition & Fees (Texas Resident)	1,143.15	1,671.20	1,430.65	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	2,805.15	4,164.20	3,092.65	Total for Non-Resident

- *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 provide operation and maintenance support of the Student Union Building.
- *Computer Access Fee:* \$10.25 per semester credit hour is charged to fund costs incurred in providing access to and supervision of computer laboratories.
- *International Education Fee:* \$1 per semester is charged to assist students participating in international student exchanges or study programs.
- *Recreation Fee:* \$75/\$35.
- *Registration Fee:* \$10 per semester is charged to defray the cost of providing ASSIST services for registration.
- *Library Technology Fee:* \$2.25 per semester credit hour is charged to enhance student access to library information via technology.
- *Medical Service Fee:* \$23.10 per regular semester or \$11.55 per summer session is charged to fund Student Health Services.
- *Utility Fee:* \$2.85 per semester credit hour is charged to defray the rising cost of utilities.
- *Academic Advisement Fee:* \$25 per regular semester or \$12.50 per summer session is charged to defray the cost of providing the necessary advisement infrastructure for undergraduate students, who are TASP cleared.
- *Clinical Lab Science Course Fee:* \$20-\$50 per course. This fee is assessed to defray the costs of consumable supplies, media, diagnostic reagents and chemicals and the clinical practicum cost.
- *College of Education Field Experience Fee:* \$25 per course 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 and 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. Reference Distance Learning Tuition Waivers on pages 51-52 for additional information.
- *Engineering Course Fee:* \$5 per semester credit hour for lower undergraduate courses, \$13 per semester credit hour for upper-level undergraduate courses and \$18 per semester credit hour for graduate courses. This fee is assessed to defray costs of lab equipment beyond that provided by the College of Science and Engineering 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.
- *Instrument Users Fee:* \$10 will be assessed for clinical laboratory science courses, \$25 to certain College of Education courses, and \$8-\$58 for

NOTE: The fee tables do not include required laboratory fees or individual instruction fees, which are listed with the individual course descriptions.

### ▲ 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 and chemicals and costs associated with replacement of equipment to students enrolled in specific chemistry courses.

specific music courses to support maintenance and equipment replacement costs.

- *Individual Instruction Fees:* For courses in art, communication and music that provide individual coaching or instruction, a fee of \$35 for a one- or two-hour course or \$60 for a four-hour course may be charged. Specific music courses are assessed \$2.
- *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. 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 locks, towels 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; doctoral graduates, \$25 per three semester credit hours with a \$75 maximum.
  - College of Science and Engineering, Biology, chemistry, engineering, physics and geology: Undergraduates, \$3 per semester credit hour; graduates, \$15 per semester credit hour. Mathematics: Undergraduates, \$1 per semester credit hour; graduates, \$5 per semester credit hour.
- *Three-peat Fee:* \$100 per semester credit hour is assessed to defray the costs associated with students enrolled in a given course for the third or greater time.

## ▲ PAYMENT BY INSTALLMENT

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

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

Option A: Full payment on specified due date.

Option B: Half payment on specified due date.

One-fourth payment before the sixth class week.

One-fourth payment before the 11th class week.

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

Students electing to pay in accordance with Option B must personally sign a promissory note. A non-refundable Tuition Installment Incidental Charge of \$30 will be collected to defray the cost to the University of providing this delayed-payment service.

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

After the first three class days of the class week indicated above, late installments will still be accepted, but a non-refundable Reinstatement Fee of \$25 will be assessed in addition to the installment amount.

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

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

## ▲ OTHER FEES AND DEPOSITS

- *Auditing Fees:* \$20 non-refundable fee will be charged if the instructor permits anyone to audit the course.
- *Cafeteria Meal Tickets:* Cafeteria meals for students residing on campus are included in the Residence Hall contract. Other students may purchase a semester or summer session meal ticket. For more information, see Student Housing on page 91.
- *Catalog:* The first University Catalog is provided free to each undergraduate and graduate student; subsequent catalogs will cost \$2 each.
- *Cooperative Pharmacy Program Application Fee:* \$60 will be assessed to defray the cost associated with

the application process and travel of faculty between UT Austin and UT Pan American for admission committee meetings.

- *Course Drop Fee:* \$5 non-refundable fee is assessed to students dropping courses on the first day of classes and thereafter.
- *Diploma Replacement Fee:* \$20 will be charged to students who request the replacement of a diploma for duplication costs.
- *Emergency Loan Processing Fee:* \$20 non-refundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See page 52 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.
- *Graduation Fee:* \$32 non-refundable fee is assessed for undergraduate and graduate degrees. This fee is payable at the time the candidate presents the application for graduation to the Office of 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 non-immigrant visas and living in the United States. The fee is variable, to match the premium for approved UT System Student Insurance Plan.
- *ID Card Replacement Fee:* \$7 non-refundable fee for a replacement ID card. Entering students are provided a free University photo identification card. Students may pay the fee at the Office of Student Development, University Center, Room 205, when they request a replacement ID card.
- *International Student Service Fee:* \$35 per semester is assessed to defray the cost of providing services to F-1 and J-1 students.
- *International Business Doctorate Application Fee:* \$35 non-refundable fee to defray costs of processing applications for admission to the doctoral program in international business.
- *Late Payment Fee:* \$50 non-refundable fee to defray the cost associated with the processing of late tuition and fee payments.
- *Late Registration Fee:* \$40 non-refundable fee to defray the costs of late registration and extra services required.
- *Library Fees:* The fees are, for a late book, \$.25 per workday per book; lost book, plus a \$15 processing fee; damage fee, \$5 if repairable in-house, \$12 if rebinding is needed by commercial binder; late reserve material, \$.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, \$.20 per page; Interlibrary loan, actual cost; late equipment fee, up to \$.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 a \$15 processing fee; and lost audio visual and computer materials, replacement cost plus a \$15 processing fee. All library fees are paid at the Circulation Desk of the University Library.
- *Orientation Fee:* A \$60 one-time non-refundable fee will be charged to defray the costs associated with new student orientation, preregistration and other activities. Students must pay the fee prior to attending their orientation.
- *Parking Permit:* See Vehicle Registration and Operation Permit on page 39.
- *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 90.
- *Returned Check Charge:* \$15 non-refundable service charge will be assessed to a student for each bad check. The University may refuse to accept a check from a student who has previously given a bad check (insufficient funds, account closed, signature irregular, payment stopped, etc.).
- *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 52.)
- *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 non-refundable.
- *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 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.
- *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.
- *Thesis Microfilming Fee:* Each master's thesis is microfilmed and placed in the University Library. The cost will be approximately \$20, depending on length of thesis.
- *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.
- *TSI Affected Student Advisement Fee:* \$45 per semester will be charged to students not cleared from TSI to defray the cost of advising.
- *Tuition Installment Incidental Charge:* See Installment Payments on page 37.
- *University Testing Services:* Fees may be charged for tests to defray the cost of administering and scoring academic tests. Accuplacer Test Fee, \$35; ACT Residual Test \$50; Local Advanced Standing Examination Fee \$20; CLEP Service Fee \$20; Correspondence Exam \$20; Institutional TOEFL \$40; Miller Analogies Test \$45; The Higher Education Assessment of THEA-Quick Test (formerly Q-TASP) \$10; Texas Commission on Law Enforcement Officers Standards and Education \$25; and Texas Examinations of Educator Standards or TExES Qualifying Exam, \$15. Please inquire at the University Testing Center, UTPA Annex, 2412 S.

Closner, Edinburg, telephone 956/292-7584 or 7585, e-mail: testing@utpa.edu.

- *Vehicle Registration and Operation Permit (Parking Permit):* All students, whether full- or part-time, who operate a motor vehicle in the campus area must register the vehicle with the University Police Department. A hangtag permit or decal to be placed on the vehicle indicating the permit number and class C parking privileges will be provided. The charge for the academic year beginning Sept. 1 and ending Aug. 31 is \$39 if paid during the fall semester, \$30 if paid during the spring semester, \$22 during the first summer session, and \$10.50 during the second summer session. There are no refunds after the 12th class day (fourth class day in the summer). Parking and Traffic Rules and Regulations are available at the University Police Department or online at <http://utpa.edu/police>.

NOTE: Unpaid fees and/or fines that become overdue may result in a "hold" being placed on student's records. The fees listed above must be paid at the Parking Services Department, Office of Payments and Collections, Student Services Building, Room 115, except for the Library Fees and ID Card Replacement Fee as noted above. Students who are unsure where to pay fees or what fees they owe may call the Office of Payments and Collections at 956/381-2715 for more information. For citation fees or fines, call the Parking Services Department at 956/381-2738.

### ▲ 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 non-refundable fees) according to the following scale (Section 54.006, Texas Education Code):

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

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

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

NOTE: The term "class days" refers to days the University

schedules classes, not the individual student's schedule.

Students officially dropping courses but remaining enrolled at the University receive a full refund of tuition and mandatory fees actually paid for the dropped classes through the 12th class day (official census date) during a fall or spring semester or the fourth class day (official census day) during a summer term, minus a non-refundable \$5 course drop fee and other non-refundable fees assessed for each course dropped beginning with the first day of classes.

Students will not receive refunds for classes dropped after these dates. Additionally, per the Texas Higher Education Coordinating Board Rules and Regulations, students may not enroll in a course after the official census date (Chapter 9, Subch. B, 9.31.a).

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.

## ▲ TUITION REBATES

### Eligible Students

To qualify for a tuition rebate of \$1,000 upon graduation from UTPA, students must meet all of the following criteria:

1. Student must have attempted no more than three hours in excess of the minimum number of semester credit hours required to complete the degree in the catalog under which they graduated. (See definition of Attempted Hours below.)
2. Student must have enrolled for the first time in an institution of higher education in the fall of 1997 semester or later.
3. Student must be requesting a rebate for work related to a first baccalaureate degree received from a Texas public university.
4. Student must have been a resident of Texas, must have attempted all coursework at a Texas public institution of higher education, and have been entitled to pay resident tuition at all times while pursuing the degree.

*Definition:* Attempted hours include transfer credits, course credit in excess of nine hours that were earned exclusively by examination, courses that are dropped after the official census date, for-credit developmental courses, optional internship and cooperative education courses, and repeated exclusively by examination; courses that are dropped after the official census date, for-credit developmental courses, optional internship and cooperative education courses, and repeated courses. Courses dropped for reasons that are determined by the institution to be totally beyond the control of the student shall not be counted.

### Amount of Tuition Rebates

1. The amount of tuition to be rebated to a student under this program is \$1,000, unless the total amount of undergraduate tuition paid by the student to the institution awarding the degree was less than \$1,000, for any amount of undergraduate tuition paid by the student to the institution.

2. A student who paid the institution awarding the degree an amount of undergraduate tuition less than \$1,000 may qualify for an increase in the amount of the rebate, not to exceed a total rebate of \$1,000, for any amount of undergraduate tuition the student paid to other Texas public institutions of higher education by providing the institution awarding the degree with proof of the total amount of that tuition paid to other institutions.

3. Tuition rebates shall be reduced by the amount of any outstanding student loan, including an emergency loan, owed to or guaranteed by this state, including the Texas Guaranteed Student Loan Corporation. If a student has more than one outstanding student loan, the institution shall apply the amount of the rebate to the loans as directed by the student. If the student fails to provide timely instructions on the application of the amount, the institution shall apply the amount of the rebate to retire the loans with the highest interest rates first.

### Responsibilities of Institutions

1. Institutions shall notify first-time freshmen of the tuition rebate program. A notice in the official catalog shall be one acceptable form of notice.

2. If requested by potentially eligible students, public institutions of higher education are required to provide these students opportunities to enroll during each fall and spring semester in the equivalent of at least 12 semester credit hours that apply toward their degrees. Institutions are not required to provide students with the opportunity to enroll in specific courses or specific sections. The requirement may be met by allowing substitutions for required courses or by allowing Concurrent Enrollment in courses from another institution, so long as the courses are taught on the student's home campus and the student incurs no financial penalty.

3. Texas public universities are required to provide students with appropriate forms and instructions for requesting tuition reimbursement at the time that students apply for baccalaureate degrees.

4. Institutions are required to provide tuition rebates to students who apply for them within 60 days after graduation or provide the student with a statement explaining the reason the student is ineligible for the rebate.

5. Institutions are required to provide a dispute resolution process to resolve disputes related to local administration of the program.

6. Disputes related to lower-division credit transfer should be resolved in accordance with Coordinating Board rules, Chapter 5, Section 5.393 of this title (relating to transfer of lower division course credit).

7. Institutions may adopt rules and regulations for administering the program.

### Responsibilities of Students



1. Students desiring to qualify for tuition rebates are responsible for complying with all University rules and regulations related to administration of the program.

2. Students desiring to qualify for tuition rebates are solely responsible for enrolling only in courses that will qualify them for the rebates.

3. A student who has transferred from another institution of higher education is responsible for providing to the institution awarding the degree official transcripts from all institutions attended by the student.

4. Students must apply for rebates prior to receiving their baccalaureate degrees on forms provided by the institution admission office and must keep the institution apprised of their address for at least 60 days after their graduation date.

### ▲ RETURN OF TITLE IV FUNDS POLICY

When a recipient of federal financial aid funds withdraws from the University during a period of enrollment (i.e. semester) in which the recipient began attendance, the institution must determine the amount of federal loan or grant assistance that the student earned as of the student's withdrawal date.

The percentage of aid that has been earned by the student is equal to the percentage of the semester that the student completed as of the student's withdrawal date. To determine the earned aid, the school will divide the total number of days of enrollment completed for which aid is awarded by the number of calendar days in that enrollment period. If this date occurs after the completion of 60 percent of the semester, the student is considered to have earned 100 percent of the federal grant and/or loan assistance for the semester. Please note that in cases where a student ceases attendance without providing official notification to the university of his or her withdrawal from the university, the institution must consider the midpoint of the semester as the official date of withdrawal. The student must contact his or her academic Dean's office to provide official notification of intent to withdraw.

If the total amount of federal grant or loan assistance, or both, that the student earned is less than the amount of federal grant or loan assistance that was disbursed to the student, the difference between these amounts must be returned to the federal aid programs. The amounts of unearned federal aid must be returned regardless of whether the student is eligible to receive a refund of a portion of university fees, such as tuition, fees, or room and board fees. The amount to be returned to the federal student financial aid accounts will be returned to the programs from which the student received aid up to the amount of aid disbursed in the following priority order: Unsubsidized Federal Stafford loans, Subsidized Federal Stafford loans, Federal Perkins Loan, Federal PLUS loans received on behalf of the student, Federal Pell Grants for which a return of funds is required, Academic Competitiveness Grant for which a return of funds is required, National SMART Grants for which a return of funds is required, and Federal SEOG grants for which a return of funds is required.

If the total amount of federal grant or loan assistance,

or both, that the student earned is greater than total amount of federal grant and/or loan assistance that was disbursed to the student or on behalf of the student, as of the date of the institution's determination that the student withdrew, the difference between these amounts must be treated as a post-withdrawal disbursement. If federal loan funds are used to credit a post-withdrawal disbursement, the university must provide the student, or parent in the case of a PLUS loan, the opportunity to cancel all or a portion of the post-withdrawal disbursement. The university has 30 days to provide this notice to the student or parent. The student or parent must respond to the notice within 14 days of the date the institution sent the notification. If the student or parent does not respond, the university cannot make a post-withdrawal disbursement of federal loan funds.

### ▲ FEDERAL POLICY ON ALL "F'S"

If a student fails to earn at least one passing grade in his/her classes and received Title IV aid, the student must prove within a timely manner that he/she completed the course and earned the failing grade or the date the student stopped attending. Federal regulations, 34 CFR 668.22(c)(1)(iii), require the school to determine if the student earned the failing grades or if the student dropped out of school. If the school cannot make this determination, the school must apply the Return of Title IV Funds Policy on the student's account. This will cause the student to owe a balance due to the school. The student might also owe a balance to the federal government that must be paid within 45 days or the student's account will be reported to the U.S. Department of Education for collections. A hold will also be placed on the student's account that will prevent the student from receiving future Title IV Aid, register for future semesters, and receive any services from the institution.



# FINANCIAL ASSISTANCE

## ▲ GENERAL INFORMATION

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

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

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

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

Student Financial Services  
Student Services Building, First Floor  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-2501  
E-mail: [fnaid@utpa.edu](mailto:fnaid@utpa.edu)  
Web: <http://www.utpa.edu/fnaid>  
<http://askrio.utpa.edu>

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

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

Federal Student Aid Information Center  
1-800-4-FED-AID (1-800-433-3243)  
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 of the application, a student should call 1/800/433-3243 or visit the Web site at <http://studentaid.ed.gov>.

## ▲ APPLICATION PROCESS

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

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

- a. Be a U.S. citizen or eligible non-citizen.
- b. Be registered with Selective Service (if required).

Note: In order to receive financial assistance from

the state of Texas, a student must file a statement that he has registered for, or is exempt from registering with, Selective Service. If exempt, the specific reason must be provided.

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

## ▲ HOW TO APPLY FOR FINANCIAL AID

- File your FAFSA over the Internet at <http://www.fafsa.ed.gov>; request a PIN at [www.pin.ed.gov](http://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 by the federal processor for verification of information submitted on financial aid applications. If an applicant has been selected for verification, he or she will be notified by mail and/or e-mail. 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. Dependent students will be 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 through a revised Financial Aid Notification letter.

**The UTPA School Code for 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 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 who file by the priority deadline.

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

### Benefits of Applying Early -

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

## ▲ THE DISBURSEMENT PROCESS

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

1. When the student accepts his/her award, the award will be credited to the student's account to pay for any educational expenses.
2. Stafford Loan funds will be credited to the student's account approximately one week prior to the first class day for students who have successfully guaranteed their loan. If a student is a first-time freshman borrower, the funds will not be received until 30 calendar days after the first class day.
3. Financial aid disbursement checks: Any credits remaining in the student's account after all tuition/fees and all educational expenses have been paid will be disbursed approximately one week prior to the first class day.

NOTE: Changes in class schedule or enrollment status may cause an adjustment or cancellation of a student's awards, which will require you to pay a balance or return funds.

NOTE: All funds are mailed to the student's mailing/billing address on file with the Office of the Registrar.

## ▲ SATISFACTORY ACADEMIC PROGRESS POLICY

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.

### Policy

The Office of Student Financial Services evaluates SAP after the completion of each academic year, generally two semesters. There are three components of SAP: a qualitative standard (i.e., grade point average), an incremental quantitative standard (number of credits attempted and earned for each year of study), and a Maximum Time Frame for the degree or program. All semesters of enrollment, including summer, must be considered in the determination of satisfactory academic progress. SAP standards, including qualitative, quantitative and maximum time frame begin anew for students seeking a graduate or professional degree after completing an undergraduate degree.

### Qualitative or Grade Point Average (GPA) Requirements

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

- Students with 1 to 29 earned credits — cumulative GPA of 1.70
- Student with 30 to 59 earned credits — cumulative GPA of 1.80.
- Students with 60 to 89 earned credits — cumulative GPA of 2.00.
- Students with 90 or greater earned credits — cumulative GPA of 2.00.

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

### Quantitative or Progression Requirements

The student must be progressing toward graduation requirements by completing the courses for which he or she

enrolls each semester. Courses or classes are measured in credit hours:

**Students must complete at least 67 percent of all credits attempted.** For example, a sophomore who has attempted 60 credit hours and has satisfactorily completed 48 of those credit hours would have completed 80 percent of attempted credits.

Credits attempted are all course credit hours for which the student is enrolled as of the semester census date, which is the 12th day of class in a semester, whether he or she has received a grade yet or not. Once grades are assigned, attempted credits include grades of A, B, C, D, P, S, F, W, IP, RA, RB, RC, RD, RF, RI, RNP, CR, DR, DX, NC 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 completed are classes for which the student receives a grade of A, B, C, D, S, RA, RB, RC or P.

### Maximum Time Frame Requirements

The student must complete undergraduate 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 are allowed a maximum of 180 attempted credit hours in order to complete bachelor's degree requirements. Students attempting a second bachelor's degree are allowed 90 attempted credit hours.**

Attempted credit hours, for purposes of calculating Maximum Time Frame, include all courses with grades of A, B, C, P, S, F, W, IP, RA, RB, RC, RD, RF, RI, RNP, RP, CR, DR, DX, NC 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 are also counted when measuring the Maximum Time Frame to complete the degree or program.

### Probationary Period

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

### Financial Aid Suspension

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

### Appeals

A student who is denied aid because of a failure to meet satisfactory progress standards after the probationary semester may appeal this determination to the Satisfactory Academic Progress Appeals Committee of the Office of Student Financial Services by completing a Student Appeal form by published deadlines. An appeal must be based on significant mitigating circumstances, circumstances that seriously affected academic performance. Examples of possible mitigating circumstances are serious illness, severe injury, death of a family member and other similar situations. Students may re-establish eligibility for upcoming periods by achieving the satisfactory progress standards. After a student has re-established eligibility, he/she may be considered for aid for upcoming periods but not for periods during which the standard had not been met.

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

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

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

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

### ▲ DISTANCE LEARNING

#### UT TeleCampus

An agreement exists between UTPA and other UT

institutions to award eligible student Title IV aid when taking courses at two or more of those institutions. This agreement, entered into between each of the named institutions, hereinafter referred to as Home or Host Institutions, is intended to provide the basis for the Home Institution to pay and/or certify federal/state and institutional student financial assistance to UT TeleCampus students matriculated at a Home Institution and also studying at a Host Institution.

### Participating Institutions

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

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

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

A student wishing to enroll in a distance-learning course must first complete an Inter-Institutional Distance Education Admission and Registration (IDEAR) Form The form can be completed at the following Web site:

<http://www.telecampus.utsystem.edu> under the heading TeleCampus System.

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

## ▲ STUDY ABROAD PROGRAM

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

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

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

### Stafford Loans

Students who will be eligible for Federal Stafford Loans, unsubsidized loans and/or Perkins Loans should be aware that:

1. First-time borrowers will not receive loan proceeds until 30 days into the term.
2. Loan counseling sessions will be required for all loan applicants and the required applications and promissory notes must be completed and approved.

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](http://www.utpa.edu/finaid).

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

### Disbursement Process (Study Abroad)

Disbursement of financial aid awards will adhere to the regular university schedule of funds disbursement. Study abroad applicants who need to meet earlier payment deadlines must make arrangements to pay from their own resources.

### Pell Grant

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

### Return of Title IV

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

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

NOTE: Financial Aid Funds will be disbursed after the listed census date for the respective semester. As a result, students will need to contact the Office of International Studies to make payment arrangements with their respective study abroad program.

## ▲ TYPES OF FINANCIAL ASSISTANCE

### Grants

#### Federal Pell Grant:

This grant is available to qualifying students who complete a Free Application for Federal Student Aid, which

is online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Applications are also available at the Office of Student Financial Services. Pell Grants are not available to students who have already received a bachelor's degree. Student Financial Services determines the amount of the grant after the U.S. Department of Education has calculated the estimated family contribution.

**Federal Supplemental Educational Opportunity Grant (FSEOG):**

The federal government established this program for students with high financial need. Graduate students, or students who have already received a bachelor's degree, are not eligible for FSEOG. The actual amount and qualification is determined after the FAFSA is submitted for processing. Awards from this program are based on the availability of funds.

**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.

**TEXAS Grant:**

The TEXAS Grant was created to provide a grant to enable well-prepared students to attend public and private nonprofit institutions of higher education in Texas. To qualify for TEXAS Grant, a student must:

- Be a Texas resident.
- Have not been convicted of a felony or crime involving a controlled substance.
- Complete the FAFSA and show financial need.
- Have an EFC less than or equal to 4000.
- Register for the Selective Service or are exempt from this requirement.
- Enroll in at least 3/4 time (nine hours or more) in an undergraduate program.

**AND**

- Be a graduate of an accredited high school in Texas not earlier than the 1998-99 school year.
- Complete the Recommended High School Program or Distinguished Achievement Program in high school.
- Enroll in a nonprofit public college or university in Texas within 16 months of graduation from a public or accredited private high school in Texas.
- Have accumulated no more than 30 semester credit hours, excluding those earned for dual or concurrent courses or awarded for credit by examination (AP, IB, or CLEP).

**OR**

- Have earned an associate's degree from a public

technical, state or community college in Texas.

- Enroll in any public university in Texas no more than 12 months after receiving their associate's degree.

Students entering the program from high school who continue in college and who meet program academic standards can receive awards for up to 150 semester credit hours, until they receive a bachelor's degree, or for five years if enrolled in a four-year degree plan or six years if enrolled in a five-year degree plan, whichever comes first.

Students entering the program based on acquisition of an associate's degree who continue in college and who meet program academic standards can receive awards for up to 90 semester credit hours, until they receive a bachelor's degree, or for three years if enrolled in a four-year degree plan or four years if enrolled in a five-year degree plan, whichever comes first.

Students must ensure that an official high school transcript is on record with the Office of Admissions before they can receive an award.

**Academic Competitiveness Grant (ACG)**

The U.S. Department of Education established a need-based grant program for undergraduate students who successfully complete a rigorous high school program as determined by the state or local education agency and recognized by the secretary of education. To qualify for an ACG students must be:

- Eligible for Federal Pell Grants.
- U.S. citizens and eligible non-citizens.
- Enrolled at least halftime.
- Enrolled in a degree program.

Students eligible for the ACG will receive the award for the first and second academic year of their program of study. Second-year students must also have maintained a cumulative GPA of at least 3.0 on a 4.0 scale as of the end of their first academic year.

**National Science and Mathematics Access to Retain Talent Grant (SMART Grant)**

The U.S. Department of Education established a need-based program for undergraduate students who are pursuing a major in mathematics, science (including physical, life and computer sciences), technology, engineering, or a foreign language determined critical to national security. To qualify for SMART Grants, students must be:

- Eligible for Federal Pell Grants.
- U.S. citizens and Eligible non-citizens.
- Enrolled at least half-time.
- Enrolled in at least one class that meets the specific requirements of the eligible major.

Students eligible for the SMART Grant will receive the award for the third and fourth academic year of their program of study. Students must also maintain a cumulative

grade point average of at least 3.0 on a 4.0 scale every semester in coursework required for the major.

### **Federal Work-Study Program (FWS)**

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

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

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

The amount a student receives in wages under work-study cannot exceed the total Federal Work-Study amount awarded. The employer will consider the student's class schedule when preparing the work schedule. Funds are limited; therefore, funds are awarded on a first come first serve basis for new incoming students. For returning students, priority is given to students who have previously worked under the work-study program.

Students will be able to see a list of work-study employment opportunities by department at <http://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.

#### **Students under Conservatorship of Department of Protective and Regulatory Services**

This program provides exemption on tuition and required fees for persons who were under the conservatorship of the Department of Protective and Regulatory Services on the day preceding their 18<sup>th</sup> birthday. On or after the day of the student's 14<sup>th</sup> birthday if the student was eligible for adoption on or after that day, on the day the student received a high school diploma or equivalent, or during an academic term in which the student was enrolled in a dual credit course. In order to take advantage of this exemption, the student must enroll as an undergraduate (including a dual credit course) no later than his or her 21<sup>st</sup> birthday.

### **Temporary Assistance for Needy Families Program**

This program is for Texas residents who, during the student's last year of public high school in this state, was a dependent child receiving financial assistance under Chapter 31, Human Resources Code, for not less than six months. Student must have successfully completed the attendance requirements under Section 25.085 and be younger than 22 years of age on the date of enrollment. The student must also enroll at the institution as an undergraduate student not later than the second anniversary of the date of graduation from a public high school in this state and meet the entrance examination requirements of the institution before the date of enrollment. A student eligible for this program will be exempt from tuition and fees not to exceed his/her first academic year.

### **Children of Disabled or Deceased Firefighters and Law Enforcement Officers**

Exemption is for children under 21 years of age (or 22 if the student was eligible to participate in special education under Texas Code 29.003) of disabled full-paid or volunteer firefighters, full-paid municipal, county, state peace officers, custodians of the Department of Criminal Justice, or game wardens. Disability/death must have occurred in the line of duty. Students are exempted from tuition and required fees, not to exceed 120 undergraduate credit hours or any semester begun after age 26.

### **Valedictorian Tuition Exemption**

Valedictorians of each accredited Texas high school are exempted from tuition during the first two regular semesters immediately following their high school graduation.

In order to qualify for this exemption, the student must submit a copy of his/her certificate to Student Financial Services, confirming that the student was the highest-ranking student of his/her high school.

### **Educational Aide Exemption Program**

This program exempts eligible students attending public colleges or universities in Texas from the payment of tuition and fees (other than class or lab fees).

To apply for an Education Aide Exemption (EAE), the student must:

- Be a Texas resident.
- Have applied for financial aid through the college to be attended, including filing the Free Application for Federal Student Aid or by qualifying on the basis of adjusted gross income using a current income tax return.
- Have been employed as a full-time educational aide for at least one of the past five school years, or as a substitute teacher for 180 days of the past five school years preceding the term or semester for which the student is awarded his or her initial exemption.
- Be employed in some capacity by a school district



in Texas during the full term for which the student receives the award unless granted a hardship waiver as described in Section 21.1089 of this title (relating to Hardship Provision).

- Enroll in courses leading to teacher certification.
- Register for the Selective Service or are exempt from this requirement.
- Meet academic requirements established by the college or university.

Applications for the Educational Aide Exemption Program are available through the school district or university and college financial aid offices, or by calling the Texas Higher Education Coordinating Board at 512/427-6387 (Austin metro) or 800/242-3062, ext. 6387 (outside Austin) to get a printed application.

### Senior Citizen Exemption

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

### Hazlewood Act for Veterans

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

- Have resided in Texas for 12 months prior to

registration.

- Have entered the service at a location in Texas.
- Have declared Texas as the person's home or record or would have been a resident of Texas under Subchapter B by the time of entry.
- Have served in armed forces in World War II, Korean Conflict, the Cold War, Vietnam, Grenadaera, Lebanon, Panama, Persian Gulf, the national emergency related to 9/11/01.
- Have been honorably discharged.
- Not be eligible for federal education benefits.

Students are entitled, not to exceed 150 credit hours, to an exemption of payment of tuition, fees (excluding student property deposit fees, student service 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.

### Tuition and Fee Exemption for Spouse of Veterans of the Armed Forces

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 the spouse of members of the Texas National Guard who after January 1, 1946, were killed while on active duty or became totally disabled for purpose of employability according to the Department of Veterans Affairs disability rating as a result of service-related injury.

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

### **Tuition and Fee Exemption for Active Military Dependant Children**

Texas Education Code Section 54.203 (b-2) exempts a child or stepchild of a member of the U.S. armed forces who is a resident of Texas or is eligible for resident tuition from the payment of tuition not to exceed 150 credit hours. The military member must be deployed on active duty for purpose of engaging in a combative military operation outside the United States.

### **Tuition and Fee Exemption for Members of State Military Forces**

Texas Education Code Section 54.22155 provides an exemption for individuals certified by the adjutant general of the state military forces as having been awarded assistance for tuition and fees under Texas Government Code Section 431.090. Eligible students are exempt from tuition, not to exceed 12 semester credit hours charged at the Texas resident rate, and mandatory fees for any semester in which the tuition exemption is received.

### **Ex-Prisoners of War Exemption**

This program is available to a student who is a resident of Texas and was a resident of Texas at the time of original entry into the armed forces, and was first classified as a POW on or after January 1, 1999. The student must enroll for at least 12 semester credit hours. The student is exempted from tuition and required fees, student housing and food costs not to exceed 120 hours.

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

This program is available for the surviving spouse or children of certain public peace officers, probation officers, parole officers, jailers, police reservists, fire fighters and emergency medical personnel (Texas Code 615.003). Death must have occurred in the line of duty as a result of a risk

inherent in the duty. The student must enroll full-time and is exempted from tuition and fees, student housing and food costs not to exceed bachelor's degree or 200 hours.

### **Exemption for Blind and Deaf Students**

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

### **Exemption for Firefighters Enrolled in Fire Science Courses**

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

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

Eligible student must be under the age of 21, a dependent person, under 25 years of age who receives a majority of support from parent. Parent must be a resident of Texas on active military duty and classified by Department of Defense as a Prisoner of War or Missing in Action at time of the students registration. The student is exempted from tuition and required fees.

### **Children of Professional Nursing Program Faculty**

Program is available for children whose parent is a faculty member or teaching assistant in a nursing program in Texas. Student must:

- Be 25 years or younger.
- Be a Texas resident.
- Have not previously received a baccalaureate degree.
- Have not previously received an exemption under this section for 10 semesters or summer sessions.

Exemption applies only at the institution that employs the parent/faculty member. Students are exempted from tuition, which may be prorated if parent is not full time.

### **Nursing Preceptors and their Children**

In order to be eligible for this exemption, a student must be: A Texas resident and a registered nurse serving under contract as a clinical preceptor.

OR

A child 25 years or younger whose parent meets the criteria above and has not previously received a baccalaureate degree and has not previously received an exemption under this

section for 10 semesters or summer sessions.

Students are eligible to receive \$500 off tuition per semester.

### Distance/Off-Campus Learning Exemption

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

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

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

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

### Mandatory or Discretionary Fee Exemption

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

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

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

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

### Early High School Graduates Scholarship

This exemption is available to:

- Students who graduated between 9/1/2005 and 6/14/2007.
- Graduated from a Texas public high school, and
- Completed either the recommended high school curriculum or the distinguished achievement high school curriculum in no more than 36 consecutive

months, no more than 41 months or no more than 45 months, more specifically set forth in HB2383 enacted by the 79<sup>th</sup> Legislature.

- Attended high school in Texas only.
- Registered for the Selective Service or are exempt from this requirement.
- Are Texas residents.
- Students who graduated on or after 6/15/2007 and
- Graduated from a Texas public high school;
- Completed either the recommended high school curriculum or the distinguished achievement high school curriculum in no more than 36 consecutive months, no more than 41 months or no more than 46 months, more specifically set forth in HB2383 enacted by the 80<sup>th</sup> Legislature,
- Attended the majority of high school in Texas;
- Registered for the Selective Service or are exempt from this requirement, and
- Are US citizens or otherwise lawfully authorized to be in the United States.
- An otherwise eligible student who graduates in no more than 36 months receives \$2,000 for use toward tuition and required fees. If he/she also graduates with at least 15 semester credit hours of college credit, he/she may receive an additional \$1,000.
- An otherwise eligible student who graduates in more than 36 months but no more than 41 months receives \$500 for use toward tuition and required fees. If he/she also graduates with at least 30 semester credit hours of college credit, he/she may receive an additional \$1,000.
- An otherwise eligible student who graduates in more than 41 months but no more than 45 months (46 months for students graduating after 6/15/2007) can receive \$1,000 if he/she graduates with at least 30 semester credit hours of college credit.

### Fifth-Year Accounting Student Scholarship Program

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

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

In order to apply, students must:

- Be classified as residents of Texas.
- Be enrolled at least half-time.
- Have completed at least 120 hours of college course work (including at least 15 semester credit hours of accounting) at the beginning of the term in which the award is being made.
- Be making satisfactory academic progress.
- Have not already taken the CPA exam, but plan to take the CPA examination in the state of Texas and are willing to sign a written statement confirming the intent to take the written examination conducted by the Texas State Board of Public Accounting

for the purpose of being granted a certificate of Certified Public Accountant.

- Register for the Selective Service or be exempt from this requirement.
- Demonstrate financial need.

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

### Professional Nursing Scholarship Program

The purpose of this program is to provide financial assistance to students who are planning on becoming professional nurses. No individual award may be for more than the student's financial need. The maximum award is \$3,000. Some, but not all of 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 in 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 University Center, Room 113, 956/381-2922.

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

For additional information on any of these programs contact:

Student Financial Services  
Student Services Building, First Floor  
1201 W. University Drive

Edinburg, TX 78539-2999

Telephone: 956/381-2501

askrio.utpa.edu

Web: <http://www.utpa.edu/finaid>

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

### Loans

**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 the 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.

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

**Texas B-On-Time Loan Program:** The purpose of the Texas B-On-Time Loan program is to provide eligible Texas students no-interest loans to attend colleges and universities in Texas. If the student meets specified goals, the entire loan amount can be forgiven upon graduation.

Eligibility Requirements:

- Texas resident.
- Graduated 2002-2003 academic year or later under the recommended high school program from public or accredited private high school in Texas or received an associate's degree from an eligible institution no earlier than May 1, 2005.
- Has not earned a bachelor's degree.
- Enrolled full-time in an undergraduate degree or

- certificate program at an eligible institution.
- Has completed a FAFSA and is eligible to receive federal financial aid.

**Forgiveness Requirements:** A Texas B-On-Time Loan shall be forgiven if the student receives an undergraduate degree or certificate from an eligible institution and the student either:

- Graduated with a cumulative GPA of at least a 3.0 on a 4.0 scale, within:
  - Four calendar years after the date the student initially enrolled in an eligible institution.
  - Five calendar years after the date the student initially enrolled in an eligible institution, if the degree is in architecture, engineering, or any other program determined by the board to require more than four years to complete.
  - Two calendar years after the date the student initially enrolled in a public or private two-year institution, or
  - Graduated with a cumulative GPA of at least 3.0 on a 4.0 scale, with a total number of credit hours (including transfer hours and hours earned exclusively by examination) that is no more than six hours beyond what is required to complete the degree or certificate.

IRS regulations indicate that these loans must be reported as taxable income when they are forgiven.

NOTE: Funds are limited and students will be selected based on priority guidelines determined by the Texas Higher Education Coordinating Board.

**Teach for Texas Financial Assistance Program:**

A person may receive Teach for Texas loan repayment assistance for the repayment of any student loan for education at any public or private institution of higher education. If the loan is not a state or federal guaranteed student loan, the note or other writing governing the terms of the loan must require the loan proceeds to be used for expenses incurred by a person to attend a public or private institution of higher education. The student loan must not be in default at the time of the person's application. Priority is given to applicants who demonstrate financial need. A person may not receive loan repayment assistance for more than five years.

Teach for Texas repayment assistance is available only to a person who applies for the assistance and who:

- Is certified in a teaching field identified by the commissioner of education as experiencing a critical shortage of teachers in this state in the year in which the person receives the assistance and has for at least one year taught full time at, and is currently teaching full time at, the preschool, primary or secondary level in public school in the state in that teaching field.
- Is a certified educator who has for at least one year taught full time at, and is currently teaching full time

at, the preschool, primary or secondary level in a public school in this state in a community identified by the commissioner of education as experiencing a critical shortage of teachers in the year which the person receives the assistance.

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

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

**Scholarships**

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

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

For a complete list of scholarships and application requirements, view our UT Pan American Scholarship Guide online at [www.utpa.edu/scholarships](http://www.utpa.edu/scholarships). To be considered for scholarships at UTPA, students must complete the UTPA Excellence and Departmental Scholarship application online at [www.utpa.edu/scholarships](http://www.utpa.edu/scholarships). The scholarship process is very competitive; students are encouraged to apply early and make sure their applications are submitted and complete by January 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 a student's cost of attendance is exceeded, any UTPA scholarship(s) may be reduced or cancelled.

## University Scholars Tiered Scholarship Program

If you are an entering freshmen who has earned college credit through Advanced Placement (AP) examinations and/or the Concurrent Enrollment (CE) program at The University of Texas-Pan American, or are an International Baccalaureate Diploma recipient, you may qualify for a four-year renewable scholarship. You may qualify to receive a University Scholars Presidential Award valued at \$24,000 or a University Scholars Meritorious Award valued at \$16,000.

The University Scholars Presidential Award is a \$6,000 annual scholarship, \$3,000/ per semester. The University Scholars Meritorious Award is a \$4,000 annual scholarship, \$2,000/ per semester. The award is applied toward your tuition and fees.

**NOTICE:** It is UTPA's policy not to award institutional scholarships to students that 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 institutional scholarship(s) may be reduced or cancelled.

## Initial Award Guidelines

To be eligible to become a University Scholar, you must be an entering freshman who meets the criteria for regular admission and has graduated from a public or private school (or home school).

## Scholarship Qualification Criteria

You can qualify for the University Scholars Scholarship by meeting the initial award guidelines and fulfilling the following requirements while in high school:

### University Scholars Presidential Award

Requirements:

- Four courses (12 hrs) of AP and/or CE credits earned at UTPA. Earn B or better in each course
- Courses must include English 1301 or higher and Math 1340 or higher.
- Minimum 24 ACT or 1090 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

Or

- Receive International Baccalaureate Diploma
- Minimum 24 ACT or 1090 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

Or

- Top 10% of graduating class from an accredited public or private high school.
- Minimum of 28 ACT or 1250 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

### University Scholars Meritorious Award

Requirements

- Four courses (12 hrs) of AP and/or CE credits earned at UTPA. Earn B or better in each course.
- Courses must include English 1301 or higher and Math 1340 or higher.
- Minimum 22 ACT or 1020 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

Or

- Receive International Baccalaureate Diploma.
- Minimum 22 ACT or 1020 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

Or

- Graduate 10% of graduating class from an accredited public or private high school.
- Minimum of 26 ACT or 11170 SAT Composite  
\*Composites do not include Writing portion of ACT/SAT tests.

## How to Apply

There is no formal application for the University Scholars Tiered Scholarship Program. University Scholars Scholarship is awarded on a competitive basis on a first come first serve basis. There are limited slots available therefore you are highly encouraged to do the following as early as possible to ensure you are considered for this scholarship:

- Fill out the UTPA Admission Application at [applytexas.org](http://applytexas.org).
- Submit your ACT or SAT scores.
- Submit an official high school transcript to the UTPA Office of Undergraduate Admissions, which must include ACT or SAT scores, GPA (on a 100 point scale), and rank and class size (at time of application).
- Request your AP scores (if applicable) be sent directly to UTPA.
- You must be admitted to UTPA.

**▲ EXTERNAL SCHOLARSHIPS**

Many agencies, employers, military and service organizations award funds to students. Receipt of these external awards may result in a reduction of a student's financial aid from UT Pan American. Therefore, financial aid recipients must notify the Student Financial Services office, in writing, of any scholarships received from sources other than UTPA. To the extent possible, The University will adjust loan awards before reducing grants.

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

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

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

**Fellowships**

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

## ENROLLMENT

**▲ GENERAL INFORMATION**

**Classification**

Students are classified according to the number of hours of college credit they have earned. Classifications are as follows:

Freshmen	0-29 earned hours
Sophomores	30-59 earned hours
Juniors	60-89 earned hours
Seniors	90 or more earned hours
Post Baccalaureate*	

*\*Undergraduate students who hold a bachelor's degree from an accredited institution.*

**Graduate Students**

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

**Post Master's**

Students who have earned a graduate degree and are continuing in another graduate program.

**Doctoral Students**

Students who have been accepted to a doctoral program.

**▲ COURSE INFORMATION**

Undergraduate classroom course information, including list of courses to be offered each semester, syllabi and faculty curriculum vitae of each regular instructor, may be found at the following Web site, [www.utpa.edu/courseinfo](http://www.utpa.edu/courseinfo) (Texas Education Code Section 51.974).

**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 217 in the Glossary for more information and an example.)

**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 for informational purposes. See page 55 for further information.

**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 student's best interest, as well as his/her responsibility, to determine by other means (such as semester course schedules) when courses required for his/her 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, Spanish 1301 shows that the course is taught at the freshman level and carries three hours of credit per semester. All lower-division undergraduate courses ending in the numbers 87 and 88 are honors courses.

1000 numbered courses	Freshman level
2000 numbered courses	Sophomore level
3000 numbered courses	Junior level
4000 numbered courses	Senior level

All 5000-7000 numbered courses are master's-level courses.

All 8000-9000 numbered courses are doctoral-level courses.

## 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)
D	Below Average	(1 grade point per hour - may not be assigned in graduate classes)
F	Failure	(0 grade points per hour)
I	Incomplete	(not considered in calculating grade points or GPA hours)
IP	In Progress	(not considered in calculating grade points or GPA hours)
DR	Course Dropped	(not considered in calculating grade points or GPA hours)
DX	Course Dropped	(not considered in calculating grade points or GPA hours)
W	Withdrawal	(not considered in calculating grade points or GPA hours) from school

P	Passing	(not considered in calculating grade points or GPA hours)
NP	No Pass	(not considered in calculating grade points or GPA hours)
CR	Credit	(not considered in calculating grade points or GPA hours; however, hours are counted in total earned hours)
NC	No Credit	(not considered in calculating grade points or GPA hours)
NR	Not Reported	(not considered in calculating grade points or GPA hours)
U	Unsatisfactory	(not considered in calculating grade points or GPA hours)
S	Satisfactory	(not considered in calculating grade points or GPA hours)
RA	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RB	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RC	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RD	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RF	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RI	Developmental Education	(not considered in calculating grade points or GPA hours) Education
RNP	Developmental Education	(not considered in calculating grade points or GPA hours) Education

## Native Grade Point Average

The Cumulative Grade Point Average (GPA) at the University of Texas-Pan American (UTPA) is calculated on the basis of courses taken at UTPA and excludes transferred grades. (This Policy will become effective Fall 2010.)

## Calculation of Undergraduate Grade Point Average

The grade point average (GPA) is computed by dividing the total grade points earned by the total GPA hours (all hours attempted excluding repeated courses, incomplete grades and credit (CR) grades). The cumulative GPA is calculated using all coursework attempted. The current

semester grade point average is calculated using only coursework attempted within a specific semester.

Some courses may be repeated by the student to improve his or her GPA. (For more information, see the section on Repeated Courses on page 55.)

**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.
D	1 pt.
F	0 pts.

The following is an illustration of the method of calculation of the grade point average:

Course No.	Grade	Hours	Points Attempted	Total Points
ENG 1301	C	3 hrs.	X 2 pts. per hr.	=6
MATH 1327	D	3 hrs.	X 1 pt. per hr.	=3
HIST 2313	B	3 hrs.	X 3 pts. per hr.	=9
CHEM 1401	F	4 hrs.	X 0 pts. per hr.	=0
KIN 1201	A	2 hrs.	X 4 pts. per hr.	=8
<b>TOTAL</b>		<b>15</b>		<b>26</b>

Total attempted hours = 15  
Total grade points = 26

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

$$26 \div 15 = 1.73$$

**Incomplete Grades**

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

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

The student must arrange with the instructor to finish the course within one year by completing specific requirements. These requirements must be listed on a Request for Grade

of Incomplete form signed by the instructor, student, department chair and dean. Grades of "I" assigned to a course at the end of a regular semester would at the end of one year default to an "F", unless the faculty member has already processed a grade change for the course.

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

**Credit by Examination**

Students may receive credit by examination for some course requirements. For more information, see page 65.

**Quality of Work**

While a grade of D is considered passing in a subject, an overall average of C, which corresponds to a grade point average of 2.0, must be maintained by the student if the student expects to graduate. In addition, UT Pan American has certain specific grade requirements. For example, the student must make a C in college algebra and required freshman English courses. The student must also have at least a C average in both the major and minor fields.

NOTE: Other specific requirements can be found in the program descriptions in other sections of the catalog.

**Repeated Courses**

Some courses at The University Texas-Pan American are identified in the undergraduate catalog as repeatable for credit. All hours and grade points earned from these courses will be included in the calculation of the student's grade point average, up to the designated limit.

When a student retakes a course that is not designated as "repeatable for credit," and the grade received is A, B, C, CR, D, F, P or S, then only the last grade and hours attempted are used to calculate the grade point average. Repeated courses will remain on the student's academic record (transcript) and will be annotated with the symbol E (excluded).

The policy for repeating courses applies only to undergraduate courses completed and repeated at The University of Texas-Pan American. Transfer grades will not be used to replace a grade earned at UTPA for the purpose of raising a student's grade point average.

NOTE: Repeated courses will be used in determining the Graduate Admission GPA. See the Graduate Catalog for further information.

**Grade Change**

A change of grade is warranted only due to an error in



computation, evaluation or recording. The instructor may process a Change of Grade Form through the Office of the Dean of his/her college. Change of Grade Forms may not be released to students and must be sent directly from the appropriate academic department. In the absence of the instructor of record, after unsuccessful attempts to locate him/her, the Change of Grade will be considered by the corresponding academic department chair. The student has the option of filing a Grade Appeal according to Section 5.2.1 of the Handbook of Operating Procedures.

### Deans List

After each regular (fall or spring) semester, a Deans List is published listing the names of all full time undergraduate students (those who have completed 12 or more hours of non-remedial coursework) who have a grade point average of 3.5 or better for courses taken that semester. A Deans List is not produced during summer sessions.

### Grade Reports

Student grade reports are not mailed automatically for students in good academic standing. Students may obtain their grades using ASSIST via the Web ([assist.utpa.edu](http://assist.utpa.edu)). Students requiring a paper copy of their grades may request a transcript to be mailed to their home address on file with the Office of the Registrar using ASSIST via the Web.

## REGISTRATION PROCEDURES

### ▲ REGISTRATION

Students must officially register through the proper registration procedure to be eligible to receive credit for a course. Students will not be added to the official class rolls or grade sheets after the registration periods have 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 is available to currently enrolled students and students who apply by the published admission deadline for ASSIST registration. Academic advisement is mandatory to be eligible for priority registration by ASSIST. Students with admission, disciplinary, financial or TSI holds will not be permitted to register until the hold has been cleared. A schedule change period is scheduled prior to the beginning of each semester. Students who register during the

designated late registration period will be assessed additional late fees.

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

### ▲ DROPPING/WITHDRAWING

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of the Registrar. (See the sections on Withdrawal from the University and on Dropping a Course on page 59.) Students who decide not to attend and do not officially notify the Office of the Registrar will be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will “automatically” be dropped from their classes if they do not attend or do not pay. (If a student has requested some form of financial assistance, payment may have been posted to his or her account.) Refer to the 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 (I) <<http://www.utexas.edu/student/registrar/catalogs/gi06-07/ch4/ch4d.html#Approved.uses.of.the.symbol.X>> in each course; or (3) at the instructor’s discretion, to receive a final grade in courses where he or she has completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material. Policies affecting students who are absent for military service <<http://www.utexas.edu/student/registrar/catalogs/gi06-07/ch4/ch4g.html#Absence.for.military.service>> but do not withdraw are provided in the “Military Absences” on page 61.

In accordance with Texas Education Code, 51.907, undergraduate students who first entered college Fall 2007 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.

### ▲ SELECTION OF COURSES

During the freshman and sophomore years, the student should plan to satisfy not only the University core curriculum requirements for a bachelor’s degree (see pages 98-101) but also any introductory or prerequisite courses in the major and minor field, as specified by the departments. Although each of the departments of the University lists many of the specific courses required in the major and minor areas, usually some choice of courses is permitted at the lower level, the advanced level or at both levels. Choice is permitted when hours are specified as elective hours.

The student should develop an outline of required courses, supplementing it with those courses he or she wishes

to take in satisfaction of any elective hours allowed by the department. Any deviation from courses required must be approved by the department chair and the dean of the college, and must be incorporated into the student's Degree Plan. If deviations are made that subsequently are not approved, the student may find that these will merely add hours to graduation requirements. (See also Degree Requirements on pages 70-71.)

Many courses listed in the catalog are not offered every semester. This is particularly the case with upper-level courses. In planning a program, the student should ascertain whether a particular course will be offered during the semester he or she plans to take it, and that prerequisites to the course will be achieved prior to enrollment for the course.

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

Students who plan to graduate from UT Pan American should consult the catalog sections concerning graduation and the specific requirements and suggestions listed under their respective colleges and departments to ensure that all required work is satisfied. The department chairs and deans will help clarify matters if the student has questions.

Prior to registering, students go through academic advisement concerning the best selection of courses. Students who have not met the Texas Success Initiative (TSI) requirement are advised at the Advisement Center.

Freshmen and sophomores who have met TSI requirement are advised at the Academic Advisement and Mentoring (AAM) Center. Juniors and seniors are advised by faculty in their major area or college. Professional guidance counselors are available in each of the six colleges to assist faculty in advising juniors and seniors.

## REGISTRATION POLICIES

### ▲ DROPPING A COURSE

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

To drop a course or courses after the official census date (after all registration functions are completed for the semester), a student must: (1) obtain a Class Drop Form from the Office of the Registrar, (2) obtain the signature of the instructor of record on the form, and (3) return the completed form to the Office of the Registrar, Student

Services Building, Room 1.150.

All course drops must be completed during the first 75 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 received the letter grade he/she earns.

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

### ▲ WITHDRAWAL FROM THE UNIVERSITY

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

A student withdrawing during the first 75% of the semester or term (refer to the University calendar in this catalog or the "Registration Bulletin" for deadline dates) will receive a grade of W. After the deadline 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](http://www.assist.utpa.edu) for refund periods.

### ▲ TRANSFER STUDENT

Transfer students with 30 or more hours but without the University College-approved courses, or courses deemed comparable by The University of Texas-Pan American, may take upper-division courses if otherwise qualified, but they too must complete all University core curriculum requirements before graduation. Transfer students who lack six hours of freshman English or the equivalent and three hours of mathematics with a grade of at least C in each course should complete these requirements within their first two semesters at UT Pan American. Students will be required to complete the Texas state-mandated coursework in U.S. history and political science if this has not already been completed at their prior institution.

### ▲ NON-CREDIT ENROLLMENT

Students have the option of enrolling in a course for non-credit, which allows them 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 in a regular semester or 10 calendar days in a summer session from the date university 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 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 students 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 documents submitted by the student. The requirements are outlined on page 32 of the Fiscal Policies section of this catalog.

## 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 956/381-2660.

### ▲ NAME CHANGE

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

1. Misspelling: Student must present a copy of the birth certificate.
2. New Legal Name: Student must present a copy of the signed court order showing the authorized new legal name.
3. Marriage: If a student wishes to assume his or her spouse's name, the student must present a copy of the

marriage certificate.

4. Divorce: Students who wishes to discontinue the use of a married name and resume the use of their former name, or another name, must present a divorce decree or signed court order showing court restoration of 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 email address in the student's record in the BANNER Student Information System. Important information, such as financial aid award notification, registration information, class waitlisting, payment deadlines, and how to access bills and grades, is sent to the student's UTPA email address. It is the student's responsibility to ensure his/her UTPA email address is correct and valid as it appears in the BANNER record. Updates can be made via ASSIST. The student is also responsible for checking this email account frequently especially at the beginning and end of the semester.

### ▲ CHANGE OF ADDRESS AND/OR TELEPHONE NUMBER

If a student changes his or her address or telephone number, he or she is expected to notify the Office of the Registrar in writing immediately. 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](http://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, or by contacting the Office of the Registrar, Student Services Building, Room 1.150.

### 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 full time.

### Half-time Undergraduate

A half-time undergraduate student is one who is enrolled

for six to eight 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.

### ▲ 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 [assist.utpa.edu](http://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 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 dropped from the course with a grade of DR. The Office of the Registrar will notify the student that he or she has been dropped from the course. A student who enrolls for a course and then does not attend is considered absent from class until the student officially drops the course.

If the student does not plan to attend the course, he or she must officially drop or withdraw through the Office of the Registrar by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (See the Registration Bulletin or the Web at [www.assist.utpa.edu](http://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 events or scholastic or student development activities) are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to make up missed work or missed examinations. Instructors are encouraged to provide those students the opportunity to make up the work (either prior to or after the anticipated absence) or otherwise adjust the grading to ensure that the student is not penalized for the absence.

# SPECIAL POPULATIONS

## ▲ PERSONS WITH DISABILITIES

UT Pan American will not discriminate against any individual on the basis of a disability or because of Vietnam era/disabled Veteran status in either admission to or treatment of employment in its programs and activities.

Students with disabilities should visit the Office of Services for Persons with Disabilities prior to registration to receive information on the variety of services available. The office is located in Emilia Schunior Ramirez Hall, Room 1.101, Voice/Telecommunications Device for the Deaf (TDD) 956/316-7092. Non-students should contact the Equal Opportunity Office in the Student Services Building, Suite 6.105, 956/381-2100.

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

For more information, see page 81.

## ▲ VARSITY ATHLETES

To be in compliance with NCAA Division I eligibility requirements for athletic participation and/or athletically related financial aid, a student-athlete must meet University and NCAA admission requirements and “progress toward degree” requirements in addition to the University’s

grade point progress requirements stated under Scholastic Probation and Suspension:

1. Enrollment during each regular semester must not drop below 12 hours.
2. Academic Year Requirements consisting of both credit hour and grade point average minimums for each term of enrollment.

## ▲ VETERANS

The Veteran’s Services Center certifies veterans to receive educational benefits for attendance at UT Pan American. The Veteran’s Services Center is located in the University Center, Room 219, 956/316-7934. 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 63).

### Military Absence

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

Readmission guidelines for a student who withdraws to perform active military services are as follows. These guidelines apply to a student who withdraws from an institution of higher education to perform active military service a member of the United States Armed Forces or the Texas National Guard, except that this section does not apply to a student who withdraws from an institution solely to perform one or more training exercises as a member of the Texas National Guard.

- A. For any academic term that begins after the date a student is released from active military service but no later than the first anniversary of that date, the institution of higher education from which the student withdrew shall admit the student, without requiring reapplication of charging a fee for readmission, if the student is otherwise eligible to register for classes at the institution. On readmission of the student under this subsection, UTPA shall:
  1. Provide 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; and
  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.

Information pertaining to Education Code Section 51.3042 that was enacted and became effective June 19, 2009.

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 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.

### ▲ ARMY ROTC

The Army maintains a senior division of the ROTC at UT Pan American. A four, three and two-year program are available to interested students, both male and female, graduate and undergraduate.

In March of 2007 UTPA's ROTC program and cadets won elite national honors as the Best Small ROTC Battalion in the USA, and received the General Douglas MacArthur Award for this national recognition.

Army ROTC has unlimited 2 and 3 year tuition, books and fees scholarships for students with a 2.5 GPA or better who can pass fitness and background screening requirements. These scholarships are valued at about \$3,000 per semester with an additional living stipend of about \$2,500 per semester.

The four-year program consists of the basic course (freshman and sophomore) and the advanced course (junior and senior). Advanced instruction is oriented toward general military science and includes a four-week summer camp, usually at the end of the junior year or first year of graduate school.

Students who have successfully completed three or four years of Junior ROTC in high school may, at the discretion of the professor of military science, be given placement credit for one year of the basic course regardless of academic classification. Veterans also may be given advanced placement for the basic course, at the discretion of the professor.

Successful students are, upon graduation, commissioned as second lieutenants in the Active Army, the U.S. Army Reserve or U.S. Army National Guard. Students may elect to serve as reserve officers on active duty for an initial commitment period of three years or they may elect to serve for as little as three months of basic officer schooling followed by an extended tour with a Reserve or National Guard Unit.

During the course of instruction, the Army furnishes all required uniforms and military textbooks. Advanced course students receive a tax-free monetary allowance of either \$450 or \$500 per month for each month of the academic year (10 months of each year).

A special two-year program is available for full-time students who have a minimum of two years remaining on a degree plan and who have not had prior military training or ROTC. This program consists of an intensified course of instruction in military subjects that will qualify the student for the advanced course. The course of instruction is normally taken in the summer between the sophomore and junior years. Students attend a four-week Basic Camp at Fort Knox, Ky. receive transportation allowance to and from the camp, uniforms, room and board and are paid approximately \$750 for the period. In 2008 and 2009 all students completing this training and contracting to become an officer, receive a one-time \$5,000 cash bonus. Congress has yet to determine if

they will continue this bonus program for 2010 and beyond. No military obligation is incurred by attendance at this camp.

Application for the two-year program must be completed during the spring semester so that attendance at Basic Camp may be arranged. Further details are available at the Department of Military Science, Lamar Building B, Room 103, 956/381-3600.

## CONTINUING ENROLLMENT



### ▲ ACADEMIC STANDARDS FOR REGULARLY ADMITTED STUDENTS

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

### ▲ Scholastic Probation and Suspension Policy

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

1. Academic probation or suspension will be determined each regular (fall or spring) semester on the basis of the student's current semester and cumulative grade point

average.

2. An undergraduate student will be placed on academic probation as follows:

- Freshman — whenever the student's cumulative grade point average is below 1.70.
- Sophomore — whenever the student's cumulative grade point average is below 1.80.
- Junior and Senior — whenever the student's cumulative grade point average is below 2.0.

3. An undergraduate student will be placed on academic suspension for one regular semester whenever the student enters a semester on academic probation and does not remove himself or herself from academic probation. If the student's current semester GPA is 2.25 or above for a fall or spring semester, the student will continue on probation.

Level of Academic Status	GPA criteria
GOOD STANDING	Cumulative GPA is 2.0 or above (1.70 in case of freshmen or 1.80 in case of sophomores).
PLACED ON ACADEMIC PROBATION	Cumulative GPA has dropped below 2.0 (1.70 in case of freshmen or 1.80 in case of sophomores).
CONTINUED ON ACADEMIC PROBATION	Previously on Academic Probation, cumulative GPA is below 2.0 (1.70 in case of freshmen or 1.80 in case of sophomores), and current semester GPA is 2.25 or above.
ACADEMIC SUSPENSION	Previously on Academic Probation, cumulative GPA is below 2.0 (1.70 in case of freshmen or 1.80 in case of sophomores), and current semester GPA is below 2.25.

4. A student on academic suspension may enroll for summer sessions for the purpose of raising the cumulative GPA to the level required for good standing for the student's classification. (Once placed on suspension for a semester, the suspension cannot be removed or changed to probation on the basis that the current semester GPA is a 2.25 or higher.) Removal from suspension can be most efficiently accomplished by enrolling only for courses in which the student has previously earned a low or failing grade.

5. A student on academic suspension who raises the cumulative GPA to the level required for good standing will be reinstated as a student in good standing following notification of the Office of the Registrar.

6. If a student who has been suspended for failure to meet academic probation requirements feels that unusual circumstances warrant a review, the student may direct a written appeal to the Admissions Committee, in care of the Office of the Registrar, no later than one week prior to registration. The petition must detail the reasons for alleging that circumstances warrant special consideration and should

indicate reasons why the circumstances will not recur. The committee may reinstate a student who has not served the period of academic suspension only when convinced the best interests of both the University and the student will be served by such action.

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

Scholastic probation and suspension for graduate students is discussed in the Graduate Catalog.

### ▲ TEXAS SUCCESS INITIATIVE

The Texas Success Initiative (TSI), formerly TASP, is a statewide, comprehensive program designed to ensure that students attending public institutions of higher education in Texas have the necessary academic skills to perform effectively in college-level coursework.

TSI, in part, requires the following:

1. *Mandatory Testing and Assessment*-All students must take the THEA (Texas Higher Education Assessment) or approved alternate test prior to enrolling in college-level courses at a Texas public postsecondary institution.

2. *Mandatory Orientation*-All new students to UT Pan American, including transfer and transient students, must attend an orientation session prior to being allowed to register for classes. TSI information is disseminated at these orientation sessions.

3. *Mandatory Academic Advisement*-All students who have not passed all sections of the TSI must be advised prior to registration each semester.

4. *Mandatory Developmental Education (if indicated by TSI assessment)*-The TSI approved tests concentrate on three basic skills: reading, mathematics and writing. The standards for passing the test represent the minimum knowledge students entering college in Texas should have in order to succeed academically. Developmental courses or programs are provided to help students overcome deficiencies identified from the assessment; students must remain in continuous developmental education activities until they pass all sections of TSI.

### The TSI approved Tests

TSI approved tests are designed to determine whether students possess the basic skills in reading, writing and mathematics necessary for University courses.

In accordance with Texas Education Code, Section 51.3062, all students in the following categories who enter public institutions of higher education must take the TSI test prior to enrolling in college-level courses. State-approved exams are: ASSET, COMPASS, ACCUPLACER and THEA.

The law exempts the following categories of students:

1. For a period of five years from the date of testing, a student who is tested and performs at or above the following standards:
  - A. ACT: Composite score of 23 with a minimum of 19 on both the English and mathematics tests (partial exemptions are allowed).
  - B. SAT: A combined verbal and mathematics score of 1070 with a minimum of 500 on both the verbal and the mathematics tests.
  
2. For a period of three years from the date of testing, a student who is tested and performs on the Texas Assessment of Knowledge and Skills (TAKS) with a minimum score of 2200 on the English Language Arts with a writing subscore of 3 or 4 and a minimum score of 2200 on the mathematics test (partial exemptions are allowed).
  - A. A student who has graduated with an associate or baccalaureate degree from an institution of higher education in the state of Texas.
  - B. A student who transfers to an institution from a private or independent institution of higher education or an accredited out-of-state institution of higher education and who has satisfactorily completed college-level coursework as determined by the receiving institution.
  
3. A student who has previously attended any institution and has been determined to have met readiness standards by that institution.
  - A. A student who is enrolled in a certificate program of one year or less (level-one certificates, 42 or fewer semester credit hours or the equivalent) at a public junior college, a public technical institute, or a public state college.
  - B. A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment.
  
4. A student who on or after August 1, 1990, was honorably discharged, retired or released from active duty as a member of the armed forces of the United States of the Texas National Guard or service as a member of a reserve component of the armed forces of the United States.



## Other TSI Rules

1. Students who fail one or more parts of a TSI approved test must register for developmental courses or enroll in developmental programs in a deficient area every semester until they meet standards for each part of the test. Standards are set by the Texas Higher Education Coordinating Board and are subject to change.

2. Students who have not passed all parts of the TSI approved test may not register for any 3000- or 4000-level courses if the number of college hours they already earned plus the number of hours for which they wish to register totals 60 or more hours.

3. Students may not enroll in courses designated as skill intensive courses until both TSI and departmental developmental education requirements have been met. The following have been designated as skill intensive courses: Reading; ENG 2303, ENG 2305, ENG 2307, HIST 2313, HIST 2314, PSY 1310, POLS 2313, and POLS 2314; Math; MATH 1340 or higher level math; Writing; ENG 1301, ENG 1302.

4. Concurrent Enrollment students and international students seeking a degree are subject to the same TSI requirements as all other students.

5. Test scores are considered official only if they are sent directly from the testing company to UT Pan American, or if they appear on an official transcript from another Texas college or university.

Additional TSI information, including the rules adopted by the Texas Higher Education Coordinating Board, and information about special provisions related to certain disabilities, is available in the Learning Assistance Center and the Office of the Registrar at UT Pan American. Students needing more information on TSI rules or their TSI status can call 956/381-2529 or 956/381-2735. The TSI Registration Bulletin is available from the University Testing Center, UTPA Annex, Suite 180, 2412 S. Closner, Edinburg, Texas. For more information, call 956/292-7585 or e-mail [testing@panam.edu](mailto:testing@panam.edu).

## UNDERGRADUATE DEGREE INFORMATION

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

- Those leading to one of the following bachelor's degrees conferred by UT Pan American:
  - Bachelor of Arts (BA)
  - Bachelor of Applied Arts and Sciences (BAAS)
  - Bachelor of Business Administration (BBA)
  - Bachelor of Fine Arts (BFA)
  - Bachelor of General Studies (BGS)
  - Bachelor of Interdisciplinary Studies (BIS)
  - Bachelor of Science (BS)
  - Bachelor of Science in Computer Engineering (BSCMPE)

Bachelor of Science in Computer Science (BSCS)  
 Bachelor of Science in Criminal Justice (BSCJ)  
 Bachelor of Science in Electrical Engineering (BSEE)  
 Bachelor of Science in Mechanical Engineering (BSME)  
 Bachelor of Science in Manufacturing Engineering (BSMFGE)  
 Bachelor of Science in Nursing (BSN)  
 Bachelor of Social Work (BSW)  
 Bachelor of Music (BM)

- Those satisfying the requirements leading toward degrees offered at other institutions, such as curricula leading to degrees in law, pharmacy, medicine and other specialized fields.
- Courses satisfying requirements for a minor field.
- Courses meeting requirements for certification as a teacher.

A complete list of degrees UT Pan American offers is located on pages 65-68.

The College of Science and Engineering also offers curricula meeting requirements for pre-dental (with a major in biology or chemistry), pre-optometry (with a major in biology or chemistry), pre-pharmacy (two years) and premedical (with a major in biology or chemistry) studies.

Minors are offered in most of the fields that offer majors. Additional minors are available in geology, bilingual/bicultural education, generic special education, French, statistics, military science, Mexican-American studies, leadership studies, folklore, electrical engineering for computer science majors, electrical engineering, computer science for engineering majors, middle school mathematics, reading (for students seeking certification only), women studies, film studies, Hispanic media studies, global security studies, medical Spanish, and public administration.

Supporting courses are available in a variety of fields, including astronomy, Bible, geography and German.

Students also may choose to graduate within the framework of honors studies. Requirements are listed on pages 68-70.

### ▲ REQUIREMENTS FOR A BACHELOR'S DEGREE

*General Requirements:* The general requirements for graduation are the same for each bachelor's degree and are listed below. Specific requirements for each major field are listed in the catalog sections dealing with majors. It is the responsibility of the student to be familiar with all the requirements for the degree sought.

- Degree, Minimum Hours and GPA: A student cannot receive two 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 titled "Additional Bachelor's Degrees" on page 67. A minimum of 120 hours of work is required with

an overall minimum GPA of 2.0. Some major requirements exceed the minimum hours and/or require a higher minimum grade point average.

2. Major and Minor GPA: A minimum GPA of 2.0 in the required hours for both the major and minor fields, or for the broad-field major, is required. Graduates who seek certification as elementary teachers must have a minimum 2.25 cumulative GPA, and for middle school, high school and all-level certification, a 2.5 cumulative GPA is required. Accounting and Biology majors are required to have a 2.5 in their major courses.
3. Core Curriculum Hours and GPA: 43 hours of University core curriculum requirements must be satisfactorily completed with a minimum GPA of 2.0. (See page 98-101 for specific coursework.)
4. Freshman English: A minimum grade of C must be achieved in each of the two required freshman English courses (ENG 1301, ENG 1302 or equivalent honors courses).
5. College Algebra: A minimum grade of C must be achieved in college algebra or an approved higher-level math course.
6. Advanced Hours Overall: Must include a minimum of 51 hours of advanced-level (3000/4000) work. Some degrees require additional advanced hours.
7. Major/Minor Requirements: The coursework must include a minimum of the following: 30 hours of work in a major field of concentration (15 of which must be advanced) and 18 hours in a minor field (six of which must be advanced). A minimum of 48 hours of work in a broadly integrated area (such as business administration, music) may be substituted for the major and minor requirement. In such cases, at least 21 advanced hours must be included, and a department may specify not more than 60 total hours in the area.
8. Proficiency in a language other than English will be required at the undergraduate level. The language (non-English) proficiency equivalent will be six semester credit hours, and this requirement can be satisfied by the recommendations noted below:
  - High School AP exam scores.
  - CLEP credit.
  - Dual/concurrent enrollment credit.
  - International Baccalaureate exam.
  - Taking required courses to satisfy the requirement.
  - Satisfactory scores on UTPA language proficiency examination.
9. University Requirement: Beginning in Fall 2008, as part of The University of Texas-Pan American's retention and graduation initiatives, entering freshmen and transfer students with fewer than 30 semester credit hours of college coursework\* will enroll in the UNIV1301—Learning Framework course during their first year as follows:

**Provisional Status:** Entering Freshmen (EF) will not be required to enroll during their first **full term** (Fall for Fall EFs and Spring for Spring EFs) if they are admitted with an ACT Composite score of 19 or higher or SAT total equivalent and are in the top 25% of their graduating class. If a student does not have a high school rank percentage, the test scores (ACT or SAT) will be the sole criteria. Otherwise, both criteria must be met.

**Continued Provisional Status:** Provisional status will be evaluated after the completion of the first **full term** (Fall or Spring). A student who earns 12 semester hours and a 2.5 first-term grade point average (GPA) during the first **full term** will not need to take the UNIV 1301 during the **next full term**. Students who do not complete 12 semester hours and a 2.5 GPA during their first full term will need to enroll in the course during the **next full term** (or Summer term) and/or **before the end of the first year of enrollment**.

All students with Provisional Status will be re-evaluated at the end of the **second full term**. A student who has earned 24 semester hours and a cumulative 2.5 GPA during the first two full terms will not need to take the course.

- A student may choose to take the course at his/ her discretion, even though he/she is required to do so.

**Part-Time Students:** The same criteria will apply to part-time students, with the following exception:

- The student must earn the same number of semester hours as attempted, rather 12 semester hours earned.

A student who does not have a Provisional Status or does not meet the criteria and fails to enroll in the UNIV1301 course in their first year will receive a registration hold for the beginning of their second year. Faculty and Academic Advisement Center advisors will work closely with all freshmen students to ensure their successful progress to the second year and to completion of degree.

*\*College coursework includes Concurrent Enrollment at UTPA only, not elsewhere, and does not include credit by examination (AP, CLEP, IB, etc.)*

10. Residency: The student must complete and receive credit in residence for: (a) a total of at least 25 percent of the semester hours of coursework counted toward the degree, and (b) 24 of the last 30 semester hours, and (c) six semester hours of advanced work in the major. (Clinical Laboratory Sciences Majors: The last 30 hours of college work must be completed at UT Pan American; they must include at least eight hours of biology or chemistry, and a minimum of six advanced hours.)
11. "Re-Using" a Course: A core curriculum course may be used to meet either a major or minor requirement.

A course may not be used to satisfy a requirement for both a major and minor, or for two majors or for two minors.

12. **Teacher Certification:** All applications for teacher certification are processed through the UT Pan American Certification Office. Since degree plans for bachelor's degrees with teacher certification may differ from plans without certification, students should ensure that a revised, official degree plan and degree worksheet are filed by their major department with the Office of the Registrar.
13. **Course Distribution:** The major-minor or broad-field major course distribution must follow the requirements set forth by the various departments, subject to any limitations and requirements noted in the catalog or in published form issued by the various departments or colleges of the University.
14. **Degree Plan:** The degree plan must be approved by the student's department chair and dean and must be on file in the major department office of the college. This requirement is normally to be accomplished as soon as possible after the close of the sophomore year (completion of 60 or more hours). In any event, the degree plan must be on file before the deadline for submitting the Application for Degree.
15. **Application for Degree:** The Application for Degree must be filed by the student with the Office of the Registrar on or before the date specified in the University Calendar, which is approximately nine months prior to the intended date of graduation.
16. **Catalog-Seven-Year Limit:** 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. 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. For purposes of graduation requirements, this catalog expires August 2018.
17. **Substitutions/Waivers:** A Substitution Form, initiated at the departmental level, is required for any deviation from the degree plan and University requirements. Appeals for substitutions and/or waivers that involve the core curriculum (general education) require approval from the student's major college, from the college of the core curriculum area if in a different college and from the provost/vice president for academic affairs or his designee. Appeals for substitutions/waivers for general graduation requirements, such as total number of semester hours, grade point average and number of advanced semester hours, require approval from within the student's major college and from the provost/vice president for academic affairs or his designee only. Appeals for substitution of courses within the major, minor or elective

areas of a student's degree plan require the approval of the department chair and the dean of the college only. Content of substituted courses must be consistent with approved degree/program requirements.

18. **Graduate Courses:** Graduate courses may not be used to satisfy any undergraduate graduation requirements for a bachelor's degree.
19. **Non-Traditional Credit:** A maximum of 45 hours of college credit will be accepted toward a bachelor's degree by any combination of extension, examination or correspondence, with an 18-hour limit on correspondence credit. No credit will be awarded for "life experience."

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

### ▲ ADDITIONAL BACHELOR'S DEGREES

Students who received their first bachelor's degree from UT Pan American or other accredited institution may earn an additional bachelor's degree in a different major from UT Pan American. Such students continue to be classified as undergraduates and must:

1. Complete all requirements for the additional major(s), as set forth in the catalog.
2. Complete an additional minimum of 30 hours of credit in UT Pan American courses (of which at least 12 must be advanced and a minimum of six of these must be in the major field; in the case of a double major, a minimum of six advanced hours is required in each major field) for each bachelor's degree sought beyond the first.
3. Complete all requirements for the additional degree(s), including grade point average requirements, any minor requirements, elective courses, and advanced courses, as set forth in the catalog.
4. Comply with all other regulations as stated under University core curriculum on pages 98-101.

Completion of a baccalaureate degree at another accredited institution will fulfill The University of Texas-Pan American's general education (core curriculum requirements) exclusive of any state specified coursework. Students will be required to complete the Texas state mandated coursework in U.S. history and political science if this has not already been completed as part of their first degree. Students must also complete any other University and departmental requirements for the second degree as stipulated in the catalog.

### ▲ GRADUATION UNDER A SPECIFIC CATALOG

The degree requirements that must be completed for graduation will be those in effect at the time the

student begins his/her college career 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.

Any changes in the degree plan must be approved by the department chair and the dean of the college. For purposes of graduation requirements, this catalog expires August 2018.

## GRADUATE PROGRAMS

A list of graduate degrees offered by UT Pan American is on page 14. For more information on graduate programs, consult the Graduate Catalog.

### ▲ GENERAL INFORMATION

#### Credit by Examination

UT Pan American offers college credit by examination to qualified students through a variety of approved examinations. A student may receive up to 45 hours of undergraduate credit by examination through the following programs:

- American College Testing (ACT) Program — Credit by Examination
- College Entrance Examination Board (CEEB) Achievement Tests
- Advanced Placement (AP) Tests
- International Baccalaureate (IB) exams
- College Level Examination Program (CLEP)
- UT Pan American Local Advanced Standing Examinations-For Credit

Test scores must be sent directly from the testing agency; student or hand-carried copies are not accepted.

Credit is posted on the student's permanent record (transcript) when the student officially enrolls at UT Pan American. Credit by exam is accepted as credit only (CR) and does not affect the students cumulative grade point average. Unsuccessful attempts to earn credit by examination are not recorded on the students official transcript. Policies on credit earned by examination are reviewed every two years in conjunction with the publication of a new catalog.

For further information regarding credit by examination at UT Pan American, visit the:

Office of the Registrar  
Student Services Building, Room 1.150  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-2201  
E-mail: registrar@utpa.edu

For additional information regarding testing, contact the:

Testing Center

UTPA Annex, 2412 S. Clossner  
Edinburg, TX 78539-2999  
Telephone: 956/316-2457  
E-mail: testing@utpa.edu

Credit by examination at UT Pan American is available as follows:

#### ACT Exam Scores

Minimum ACT Subject	UTPA English Score	Course
English Language	30 (SAT 680)	ENG 1301
English Lang./Comp.	31 (SAT 700)	ENG 1302

#### CEEB Achievement and Advanced Placement (AP) Tests

If you are a high school student anticipating course credit through CEEB Achievement and/or AP Tests, you should make arrangements to take the proper examination(s) with your high school counselor or AP coordinator. This should be done in time for your scores to be received and evaluated by UT Pan American before you begin your first semester. Course credit or exemptions may be obtained in the subjects listed below:

#### CEEB Achievement Tests

Subject	Min. Score	UTPA Course	Hrs. Credit
Chemistry	600*	CHEM 1301 and CHEM 1101	0
American History	550	HIST 2313	3

\* Exempts students from CHEM 1301 and CHEM 1101; no credit given.

#### CEEB Advanced Placement Tests

UTPA Course Number	Subject Exam Title	Min. Score	Sem. Credit Hour
ART 1301	Art History	3	3
ART 1311	Studio Art-Drawing Portfolio	3	3
ART 1331	Studio Art-General Portfolio	3	3
BIOL 1401,1402	Biology	3	8
BIOL 2305	Environmental Science	3	3
CHEM			
1301,1101			
1302, 1102	Chemistry	3	8
CSCI 1380	Computer Science (A)	3	3
CSCI 1380,2380	Computer Science (AB)	3	6
ECON 2301	Economics (Macro)	3	3
ECON 2302	Economics (Micro)	3	3
ENG 1301	English Literature	3	3
ENG 1301,1302	English Language	3	6
ENG 1301, 2300	English Literature	4	6
FREN 1321	French Lang or French Lit	3	3
FREN 1321, 1322	French Lang or French Lit	4	6
FREN 1321, 1322			
2321, 2322	French Lang or French Lit	5	12
GERM 1331	German Language	3	3
GERM 1331, 1332	German Language	4	6
GERM 2331, 2332	German Language	5	6
HIST 2313, 2314	U.S. History	3	6

HIST 2331, 2332	European History	3	6
MATH 1401	Calculus AB	3	4
MATH 1401, 1402	Calculus BC	3	8
PHYS 1401, 1402	Physics (B)	3	8
PHYS 1401, 2301	Physics (C) Mechanics	3	4 or 3
PHYS 1402, 2302	Physics (C) Electricity and Magnetism	3	4 or 3
POLS 2313 or 2314	U.S. Government	3	3
SPAN1301,1302	Spanish Lang or Spanish Lit	3	6
SPAN 1303,1304	Spanish Lang or Spanish Lit	4	6
SPAN 1303,1304 2307,2308	Spanish Lang or Spanish Lit	5	12
STAT 2330	Statistics	3	3

NOTE: High school students anticipating college credit through College Entrance Examination Board Achievement, Advanced Placement Tests and/or International Baccalaureate should make arrangements to take the proper examination(s) with their high school counselors, AP or IB coordinators. This should be done in time for scores to be received and evaluated by UT Pan American before students begin their first semester.

#### International Baccalaureate

The International Baccalaureate (IB) tests are offered worldwide to students enrolled in programs affiliated with the IB program. The University of Texas-Pan American will grant credit on IB higher-level tests for the courses listed below. Please contact the Office of the Registrar for additional information.

IB Test	Min. Score	UTPA Course	Credit
English, First Language			
Higher Level	4	ENG 1301	3
Higher Level	5	ENG 1302	3
Higher Level	6	ENG 2307	3
Biology, Higher Level	4	BIOL 1401	4
Chemistry, Higher Level	4	CHEM 1301 and 1101	4
Physics, Higher Level	4	PHYS 1401	4
Economics, Higher Level	4	ECON 2301	3
Economics, Higher Level	5	ECON 2302	3
Spanish, A2, Higher Level	4	SPAN 1303 and 1304	6
Spanish, A2, Higher Level	6	SPAN 2307 and 2308	6
French, A1 and A2, Higher Level	4	FREN 1321 and 1322	6
French, A1 and A2, Higher Level	6	FREN 2321 and 2322	6
Geography, Higher Level	4	GEOG 2313	3
Geography, Higher Level	5	HIST 3303	3
History, Higher Level	4	HIST 2313	3
History, Higher Level	5	HIST 2314	3
History, Higher Level	6	HIST 3302	3
Information Technology, Higher Level	4	CSCI 1380	3
Philosophy, Higher Level	4	PHIL 1310 or PHIL 1320	3
Psychology, Higher Level	4	PSY 1310	3
Anthropology, Higher Level	4	ANTH 1323	3

Mathematics, Higher Level	4	MATH 1401	4
Mathematics, Higher Level	6	MATH 1401 and 1402	8
Visual Arts, Higher Level	4	ART 1301	3
Music, Higher Level	4	MUS 1307	3
Theatre Arts, Higher Level	4	COMM 2312	3
Theatre Arts, Higher Level	6	COMM 1615	6

#### College Level Examination Program

Students can earn course credit at UT Pan American in a wide variety of subject areas through CLEP Subject Examinations, which are standardized 90-minute, multiple-choice tests. These exams are administered by the UT Pan American Testing Center once a month during the academic year; one or two tests can be taken in one day of testing. For a list of testing dates, contact the

Testing Center  
UTPA Annex  
2412 S. Clossner  
Edinburg, TX 78539-2999  
Telephone: 956/292-7585  
E-mail: testing@utpa.edu

Listed below are subject areas in which UT Pan American credit can be earned through the CLEP testing program, along with the required minimum score for each test. (The minimum score usually represents successful completion of 35 to 50 percent of the questions on an examination.) UT Pan American credit is posted to a student's transcript only after he or she officially enrolls at the University.

Students who do not plan to enroll at UT Pan American are also permitted to take CLEP tests at the UT Pan American Testing Center. However, it is the responsibility of the student to contact the institution at which he or she plans to enroll in order to verify which CLEP tests are accepted for credit.

In order to prepare for CLEP testing, students may purchase The Official Guide for the CLEP Examinations at the UT Pan American Bookstore or order it from The College Board using the order form attached to the CLEP Registration-Admission FoRoom. Many students also obtain an appropriate textbook and/or study guide for the specific test(s).

The steps to follow in registering for CLEP testing are outlined in College Credit by Examination, a brochure available at the UT Pan American Testing Center.

#### CLEP Subject Examination

UTPA Course Number	Subject Exam Title	Min. Score	Sem. Credit Hour
ACC 2421, 2329	Principles of Accounting	53	7
BIO 1401	Biology	46	4
BIOL 1401,			

## GENERAL INFORMATION

1402	Biology	49	8
BLAW 3337	Intro Business Law	54	3
CHEM 1301, 1101 1302, 1102	Chemistry	48	8
CIS 1301	Info Sys and Comp Appl	51	3
EDCI 4302	Intro to Educ Psychology	47	3
ECON 2301	Prin of Macroeconomics	55	3
ECON 2302	Prin of Microeconomics	53	3
ENG 1301	Freshman College Comp	48*	3
ENG 1301, 1302	Freshman College Comp	60*	6
ENG 2300	Analysis and Interp Lit	50	3
ENG 2303	American Literature	50	3
ENG 2305	English Literature	50	3
FREN 1321	College-Level French Lang	41	3
FREN 1321, 1322	College-Level French Lang	50	6
FREN 1321, 1322, 2321	College-Level French Lang	65	9
FREN 1321, 1322 2321, 2322	College-Level French Lang	75	12
GERM 1331	College-Level German Lang	41	3
GERM 1331, 1332	College-Level German Lang	50	6
GERM 1331, 1332, 2331	College-Level German Lang	65	9
GERM 1331, 1332, 2331, 2332	College-Level German Lang	75	12
HIST 2313	History of the United States I	46	3
HIST 2314	History of the United States II	46	3
MANA 3361	Prin of Management	53	3
MARK 3371	Prin of Marketing	53	3
MATH 1340	College Algebra	45	3
MATH 1356	Trigonometry	50	3
MATH 1401, 1402	Calculus	47	8
POLS 2313	American Government	47	3
PSY 1310	Introductory Psychology	47	3
SOC 1313	Introductory Sociology	47	3
SPAN 1303	College-Level Spanish Lang	41	3
SPAN 1303, 1304	College-Level Spanish Lang	50	6
SPAN 1303, 1304, 2307	College-Level Spanish Lang	65	9
SPAN 1303, 1304 2307, 2308	College-Level Spanish Lang	75	12

\* Plus departmental essay

### UT Pan American Local Advanced Standing Examinations-For Credit

Students interested in acquiring credit through local departmental examinations at UT Pan American may contact the University's Testing Center to find out more about the requirements and fees. Projected local test possibilities are planned for each separate department.

Local examinations may not be taken for courses for which an approved CLEP subject exam exists.

### Local Advanced

#### Standing Examinations-For Credit

Students may acquire college credit through local departmental examinations at UT Pan American. Local examinations may not be taken for courses for which an approved CLEP subject examination exists. Students are encouraged to contact the individual academic departments for more information regarding the availability of local examinations, requirements and fees.

## ▲ TEACHING CERTIFICATES

Requirements for teaching certificates in various fields or areas are shown in the respective academic sections of the catalog. General information for undergraduates is shown on page 148 of this catalog and in the Graduate Catalog for graduate students.

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

## ▲ DEGREE PLAN

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

Students seeking a bachelor's degree are expected to file an official degree plan with their major department upon completion of their sophomore year. (Students seeking a master's degree or doctoral degree are expected to meet with their graduate advisor and file an official degree plan during their first semester of enrollment. For more information, refer to the Graduate Catalog.)

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

Upon request, the department chairs will aid students in preparing degree plans that may be required by institutions or agencies other than UT Pan American. As an illustration, some public school systems require prospective teachers who have



not completed their degrees to file an approved plan in the superintendent's office.

## Graduation Policies and Procedures

### ▲ APPLICATION FOR DEGREE

All students who intend to receive a degree from The University of Texas-Pan American must submit a completed Application for Degree Form to the Office of the Registrar by the published deadline in the University Calendar, which is approximately nine months prior to the intended date of graduation. Applications received after the deadline will be processed for the next available graduation date. These deadlines are necessary in order for prospective graduates to be notified of any deficiencies in time to register for the appropriate coursework.

### ▲ Graduation Fee

A non-refundable graduation fee of \$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 Graduation to the Office of the Registrar. 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.

### ▲ COMMENCEMENT EXERCISES

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

### ▲ HONORS

Upon graduation, a student receiving a bachelor's degree is listed with "Honors" in accordance with the following standards based on his or her final overall grade point average:

Summa Cum Laude	GPA of 3.9 to 4.0
Magna Cum Laude	GPA of 3.7 to 3.89
Cum Laude	GPA of 3.5 to 3.69

Honors are listed in the graduation program based on the student's GPA prior to completion of his or her last semester of coursework, and does not guarantee graduation with honors upon calculation of the overall GPA after the student's last semester has been completed.

## Academic Support Services

### ▲ UNIVERSITY LIBRARY

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

The Library houses a collection of over 655,000 print and online books, 159,000 government documents, more than 30,000 print and online journal subscriptions, over 1 million microform units and more than 26,000 audiovisual items. Library collections and databases may be accessed at workstations throughout the building, on and off campus. Instructional services are provided in state-of-the-art-classrooms. Of interests to the region are the special collection materials contained in the Lower Rio Grande Valley Historical Collection and the Rio Grande Folklore Archive. Materials available pertain to the Texas counties of the Rio Grande Valley and northeastern Mexico.

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

searching, interlibrary loan and library use instruction.

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

The benefits of the Public Patrons card extended for one full year are that members may check out materials according to circulation policies.

*Students enrolled in cooperative programs:* Must be registered in either of the cooperating institutions to have library privileges. These students can use UTPA library services by obtaining a 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](http://www.lib.utpa.edu), or by calling 956/381-3306 or voice/TDD 956/381-2763.

## ☪ ACADEMIC ADVISEMENT AND MENTORING CENTER

The Academic Advisement and Mentoring (AAM) Center utilizes a hybrid model of academic advisement with both a centralized and decentralized component. Centrally located in Southwick Hall, nine academic career advisors provide informative academic advisement, career advising and referral services for Texas Success Initiative (TSI) cleared freshmen. Housed in the six academic colleges (two each), professional guidance counselors provide informational, developmental and career advisement for sophomores. The professional guidance counselors also provide career guidance/exploration and referrals for all TSI cleared undergraduate students with undeclared or changing majors. Once a student has been accepted into his/her desired academic program and/or has become a junior or senior with a declared major, the professional guidance counselor provides information to the student as needed and refers the student to the most appropriate department or faculty advisor for program-specific advisement and mentoring.

## ☪ ACADEMIC ADVISEMENT AND CAREER GUIDANCE SERVICES

The AAM Center provides the following services for UTPA students:

- Academic information and guidance for prospective students.
- Academic advisement during new student and transfer

student orientations.

- Academic degree planning assistance.
- Required academic advisement for current TSI cleared Freshmen and TSI cleared Sophomores.
- Academic presentations for UNIV 1301 Learning Framework classes.
- Academic skills development assistance (goal setting, GPA calculation, academic self-monitoring, study skills, four-year plans, etc.).
- Retention advisement for at-risk students (probation, suspension, financial aid deficiency, etc.)
- Career exploration and career guidance services
- Information and referrals to academic departments, UTPA support services, student organizations, internships, employment and leadership development opportunities.
- Transfer information and resources.

Academic Advisement and Mentoring (AAM) Center  
Southwick Hall, Room 105  
1201 W. University Dr.  
Edinburg, TX 78539-2999  
Telephone: 956/316-7120  
E-mail: [aamc@utpa.edu](mailto:aamc@utpa.edu)  
[www.utpa.edu/dept/advisement](http://www.utpa.edu/dept/advisement)

## ☪ LEARNING ASSISTANCE CENTER

The purpose of the Learning Assistance Center (LAC) is to provide all students with an equal opportunity to succeed in college by maintaining a program of support services to address their unique educational and personal needs. The major goal is to increase UT Pan American retention and graduation rates while providing quality academic support programs.

The LAC is made up of various units. Call 956/381-2585 or 381-2529 for connections to any of the services listed below. The LAC is located in the Learning Assistance Center, Room 100. The Counseling Center is in the first floor of the University Center, Room 109. Academic Advisement is in University Center, Room 215. (Please check the Web at [www.utpa.edu](http://www.utpa.edu) for more information.) The Writing Center is located in the first floor of the Library.

*Academic Advisement:* Designed to assist students with educational planning with regard to University core curriculum requirements and to inform them about course placement as it relates to legislation governing the Texas Success Initiative and institutional policy. Mandatory advisement is provided for UT Pan American students who have not met the state passing standard in the three areas of reading, mathematics and writing.

*Tutoring:* Designed to help students improve their comprehension of coursework material and to develop the academic skills required for achievement at the University by providing professional staff and peer tutors to work with them on an individual or small group basis. These services assist those who are having difficulty comprehending course content, who have low grades or who wish to improve their grade point average. Tutoring is available in the subject areas of



English, Spanish, mathematics, biology, chemistry, physics and the social sciences.

*Supplemental Instruction (SI):* Supplemental Instruction (SI) is an academic enrichment program that is offered in traditionally difficult courses. SI discussion and review sessions are facilitated by trained SI Leaders who have successfully completed the course. Designed to supplement -not replace-class lectures and recitations, SI sessions are interactive and collaborative. Students who attend sessions learn to integrate **how to learn** with **what to learn**. SI sessions are usually held twice weekly for one hour; additional sessions are held prior to exams.

*Study Skills:* Designed to assist students who are having difficulty with their coursework. The study skills focus on getting organized, procrastination, listening and note-taking, reading textbooks, memory and concentration, time management, test-taking skills and test anxiety.

*Developmental Education Program:* The LAC tutorial laboratories provide academic support to students who must enroll in developmental courses and/or are in the process of fulfilling legislative requirements of the Texas Success Initiative test.

*Computer-Assisted Instruction:* Designed to provide assistance by use of commercial software program tutorials in certain college-level courses, basic skills development and TSI preparation.

*Personal Counseling:* Designed to assist students who are having issues with personal, social, emotional and/or interpersonal relationships that may be affecting their adjustment to the University environment or interfering with academic achievement. Counseling activities help students clarify their goals, facilitate personal growth, increase effective coping skills, provide support and encourage personal responsibility for their actions. Some activities are conducted in group counseling sessions, topical seminars or workshops. Students with serious mental health pathology are referred for psychiatric evaluation when appropriate.

## ☪ THE UNIVERSITY WRITING CENTER

The University Writing Center (UWC), located in the University Library, offers UTPA faculty and students 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: 956/381-2538

[www.utpa.edu/writingcenter](http://www.utpa.edu/writingcenter)

## ☪ UNIVERSITY RETENTION ADVISEMENT PROGRAM

The University Retention AdviseMENT Program (URAP) serves students through the development and implementation of programs that supplement the instructional and support services offered at the University. It also supports the advisement process through focused advisement with special populations.

The University Retention AdviseMENT Program

Southwick Hall, Room 202

Phone: 956/381-2319

Fax: 956/381-2380

[www.utpa.edu/programs/urap](http://www.utpa.edu/programs/urap)

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

Web for Students: Admission, grade, registration and

financial information can be accessed on the Web at [www.asisst.utpa.edu](http://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)
  - Add/Drop Classes
  - View Class Availability
  - Conditional Drop/Add
  - Student Schedule (graphic)
  - Student Schedule (detailed)
  - View Fee Assessment
- Student Records (UTPA username and password required)
  - View Address Information
  - Update Address
  - View Grades
  - Academic Transcript
  - Account Summary
  - Change PIN Number
  - Degree Audit
- 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 travel and to comply with The University of Texas System policy and State Law (Texas Education Code §51.949) relating to student travel. University students may travel off campus when representing a student organization, University department or engaging in

intercollegiate competition or academic activities. Examples of student travel include, but are not limited to, class field trips and assignments; attendance at scholarly or professional conferences; University-funded student organization travel; class trips for educational or cultural enrichment; athletic, student publication, dramatic, music or forensic competition or performances; student leadership conferences; placement forums; and graduate school visits.

#### B. Authorization

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

#### C. Statutory Requirements

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

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

#### D. Safety and Mode of Travel

1. All Motor Vehicle Travel
  - (a) Seat Belts
 

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

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

The total number of passengers in any vehicle at any time it is in operation shall not exceed the manufacturer's recommended capacity or the number specified in applicable federal or state law or regulations, whichever is lower. Fifteen-passenger

vans shall not be used to carry more than nine occupants (including the driver) at any one time. Consideration should be given to decreasing the number of passengers if luggage is to be transported in the same vehicle; luggage should be stored under seats or in the rear storage area.

(d) License and Training

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

(e) Proof of Insurance, Inspection and Safety Devices

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

(f) Legal Operation of Vehicle and Driving Schedule

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

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

(a) Service and Maintenance

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

(b) Operators of Vehicles

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

Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-03-02).

(c) Travel by common carrier

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

E. Business Procedures Memorandum

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

F. Coordination of Travel

1. Each group must designate a travel coordinator who is responsible for submission of all travel documents, as well as for carrying all necessary documents on the trip.
2. When possible, the advisor or group sponsor should travel with the group and serve as travel coordinator.
3. In case of accident, the travel coordinator or designee will contact the University Police Department, who will notify appropriate personnel.
4. Prior to leaving, each group must receive a pre-trip orientation, which must include:
  - (a) applicable rules of conduct as per the University's Student Code of Conduct and this Student Travel Policy;
  - (b) itinerary and contact information;
  - (c) safety issues while traveling and while at the destination point.
5. Students who use their own vehicle or another privately owned vehicle for approved travel are expected to follow all safety requirements set out in this policy.

## U STUDENT RIGHT TO KNOW AND CAMPUS SECURITY ACT

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

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

enforcement, and campus security authorities.

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

The University of Texas-Pan American 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. For complete information on Traffic, Parking, and Safety Regulations, please visit the University Police website at Web site at <http://www.utpa.edu/police/>.

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

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

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

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

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

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

University policies and Texas law prohibit the disruption of University operations and events and regulate the use of alcoholic beverages on campus. Violators will be subject to prosecution under the law and the University's disciplinary code. University policies related to the possession, sale and use of alcoholic beverages on campus are described in The University of Texas-Pan American Handbook of Operating

Procedures Section 4.9.1.

## U 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.

## U 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 calendar 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 956/381-3690. In addition, a copy of the report can be accessed via the Department of Environmental Health and Safety Web site <http://utpa.edu/safety/fire>.

## U 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 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 956/381-3690. In addition, the procedures can be accessed via the Department of Environmental Health and Safety Web site: <http://utpa.edu/safety/emergency>.

## ☪ ANNUAL CAMPUS SAFETY AND SECURITY REPORT

The University of Texas Pan-American Police Department and the Office of the Dean of Students work in conjunction each year to prepare the Campus Safety and Security Report in compliance with the federal Student Right-to-Know and Campus Security Act, and the Higher Education Opportunity Act. This report contains specific information on campus crime statistics and campus security polices including campus crime prevention programs, procedures for reporting crimes on campus, and information about the number and frequency of crimes reported to the UTPA Police Department, local law enforcement, and campus security authorities.

By October 1 of each year, the Annual Campus Safety and Security Report must be distributed to all enrolled students and current employees. Distribution may be by direct mailing, campus mail, or electronic mail. The annual report is posted on the UTPA Police Department Web site at [www.utpa.edu/campussafety/Campus\\_Security\\_Report.pdf](http://www.utpa.edu/campussafety/Campus_Security_Report.pdf). A hardcopy of the Campus Safety and Security Report is also available upon request, to prospective students or prospective employees by contacting the UTPA Police Department, Professional Standards Unit at 956/316-7151.

## ☪ 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.

## ☪ MISSING PERSON NOTIFICATION POLICY

The Office of Residence Life in collaboration with the Dean of Students Office and UTPA Police Department has developed a missing student notification policy for all on-campus residents. Each residential student is required to designate a contact person who will be contacted within 24 hours if that student is determined to be missing by the UTPA Police Department. The contact information is confidential, but may be released to the UTPA Police Department or University staff for the purpose of locating the student.

All contact information will be stored in the Office of Residence Life for accessibility to all Residence Life staff. If a student would like to change his designated contact person at anytime, he/she can contact the Office of Residence Life to update the information. Students under the age of 18 will be subject to required notification to parents no later than 24 hours after the student is determined missing by the UTPA Police Department.

Once a report of a possible missing student is received, appropriate campus resources and information will be utilized to gather information regarding the student’s last known whereabouts. If unable to locate the student, the UTPA Police Department will proceed with declaring the student officially missing.

This policy can be found in the Residence Life Handbook

The Office of Residence Life  
University Center 315  
1201 W. University Dr.  
Edinburg, TX 78539  
956/381-3439

or online at

[www.utpa.edu/reslife](http://www.utpa.edu/reslife)  
(click on the residence life tab for .pdf of handbook)

### — Important Phone Numbers —

University Police	316-7151 or H-E-L-P (4357)
Counseling Psychological Service	381-2529
Dean of Students	381-2260
Student Health Services	381-2511
Empowerment Zone	
Substance Abuse Services	
Disability Services	

## Student Judicial Services

## U 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/](http://www.utpa.edu/catalog/) and the Handbook of Operating Procedures is available at [www.utpa.edu/hop](http://www.utpa.edu/hop).

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

1. To appropriate University officials who require access to educational records in order to perform their legitimate educational duties.

2. To officials of other schools in which a student seeks or intends to enroll, is enrolled in or receives services from, upon request of these officials.

3. To federal, state or local officials or agencies authorized by law.

4. In connection with a student's application for, or receipt of, financial aid.

5. To accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose for which it was obtained.

6. To the parents of a dependent student as defined in section 152 of the Internal Revenue Code of 1954. This is for Financial Aid and Financial records only and does not include academic records.

7. In compliance with a judicial order or subpoena provided a reasonable effort is made to notify the student in advance, unless such subpoena specifically directs the institution not to disclose the existence of a subpoena.

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

9. To an alleged victim of any crime of violence, the results of the alleged 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 956/316-7151.

The University will release information in student education records to appropriate University or University of Texas System officials as indicated in no. 1 above when

there is a legitimate educational interest. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor or collection agent); a person serving on The University of Texas System Board of Regents; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

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

## U DIRECTORY INFORMATION

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

1. name, address, telephone number
2. date and place of birth
3. major field of study
4. participation in officially recognized activities and sports
5. dates of attendance
6. most recent previous educational institution attended
7. classification
8. degrees and awards received
9. date of graduation
10. physical factors (height and weight) of athletes
11. photographs
12. University e-mail address

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

## U ACCESS TO FILE

Upon written request, the University shall provide a student with access to his or her educational records. The

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

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

#### Academic Records

Office of Admissions and New Student Services:  
SSB 3.104

New Student Services:  
SSB 1.109

Office of the Registrar:  
SSB 1.150

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

#### Enrollment and Student Services/ Student Services Records

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

#### Financial Records

Business Office: Vice President for Business Affairs,  
SSB 5.101

Student Financial Services Director, SSB 186

Educational records do not include:

1. Financial records of the student's parents or guardian.
2. Confidential letters of recommendations that were placed in the educational records of a student prior to January 1, 1975.
3. Records of instructional, administrative and educational personnel that are kept in the sole possession of the maker and are not accessible or revealed to any other individual except a temporary substitute for the maker.
4. Records of law enforcement units.
5. Employment records related exclusively to an individual's employment capacity.
6. Medical and psychological records.
7. Thesis or research papers.
8. Records that only contain information about an individual after the individual is no longer a student at the institution.

## CHALLENGE TO RECORD

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

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

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

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

Students who believe that the adjudications of their challenges were unfair or not in keeping with the provisions of the Act may request, in writing, assistance from the



president of the 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.

# Student Academic Responsibilities and Appeals

☪ **ACADEMIC RESPONSIBILITIES**

Students are expected to inform themselves thoroughly concerning the regulations of the University and the course requirements for degrees and to make inquiries in case of doubt. It shall not be the University’s responsibility should complications arise because of failure to follow regulations and requirements.

Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information related to the program contained in the printed University Bulletins.

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

☪ **ACADEMIC APPEALS**

Periodically, misunderstandings arise with regard to academic expectations and final grades. Students wishing to appeal final grades or misunderstandings in academic standards should first discuss the matter with the instructor of the class. If no resolution occurs, and the student wishes

to pursue the matter further, he or she should appeal in writing to the department chair involved within one year after the disputed grade is issued or the misunderstanding occurred. The department chair will respond in writing to the student within 10 class days of the receipt of the students 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 must be mailed or delivered in person to the student within 10 class days of the receipt of the student’s written appeal.

# Student Complaint Procedures

☪ **PURPOSE**

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

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

☪ **DISCRIMINATION/DISABILITY COMPLAINTS**

Students with questions concerning discrimination in



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

*Equal Opportunity and Affirmative Action:*

1. Dean of Students, University Center, Room 104, 956/381-2262.
2. Sexual Harassment: The University of Texas-Pan American condemns sexual harassment of or by its students, staff and faculty. The University is committed to the principle that the learning and working environment of its students, employees and guests should be free from sexual harassment and inappropriate conduct of a sexual nature. Sexual harassment is a form of sexual discrimination and is illegal. Students who believe they have been subjected to sexual harassment are encouraged to immediately report the incident to the dean of students, the EO/AA officer, or the supervisor of the accused individual. The dean of students, or his or her designee, will work in consultation with the EO/AA officer to resolve the complaint.
3. AIDS-Related Issues-Acquired immune deficiency syndrome, Human immunodeficiency virus infection (HIV), and Hepatitis B virus: The University of Texas-Pan American recognizes Human Immunodeficiency virus (HIV) and Hepatitis B virus (HBV) as serious public health threats and is committed to encouraging an informed and educated response to issues and questions concerning these infections. Students may not be subjected to impermissible discrimination on the basis of HIV or Hepatitis B virus. The policy addressing these issues may be found in the Handbook of Operating Procedures Section 2.2.2. Student complaints or inquiries should be directed to the director of Student Health Services, Student Health Center.
4. Americans with Disabilities Act and Section 504 of the Rehabilitation Act: The University of Texas-Pan American is committed to providing services, equipment, and accommodations to individuals with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with Sections 303 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act. Students or applicants for admission, with complaints alleging violations of the Title II of the Americans with Disabilities Act and Section 504 of the Rehabilitation Act shall file complaints in writing with the ADA Coordinator, President's Office.

## U FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act (FERPA) concerns the maintenance and confidentiality of student

records. The University's policy regarding FERPA may be found in the, Handbook of Operating Procedures Section 5.2.3 and page 77 of this catalog. Students who believe their records are inaccurate or have been disclosed in an unauthorized manner should contact the vice president for business affairs, Student Services Building, Fifth Floor, 956/381-2121.

## U All Other Non-Academic Complaints

In an effort to resolve misunderstandings or concerns, a student must first make every effort to resolve the problem by discussing his or her concerns with the faculty or staff member against whom the complaint is lodged. If the concern still exists, the student may discuss the complaint with the appropriate chair or head of the department in which the complaint originated. In addressing the student's complaint, the department chair or head solicit information from both the student and employee, may confer with anyone having information pertinent to the complaint, and/or may hold a meeting between the student and the employee in an effort to mediate and resolve the complaint.

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

## U 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.

## U STUDENT CONDUCT AND DISCIPLINARY CODE

### Student Conduct

- a. The University considers cultivation of self-discipline by its students to be of great importance in the development of responsible citizens. Therefore, the University expects its students to maintain standards of personal discipline that are in harmony with the education goals and purpose of the University.
- b. Although the University is committed to the full support

of the constitutional rights of its students, including due process, it also has an equal obligation to protect its educational purpose and the interest of the student body. The University must therefore be concerned with the actions of individuals or groups that are in conflict with the welfare and integrity of the institution or in disregard of the rights of other students or faculty.

c. Attendance at a tax-supported educational institution of higher learning is optional and voluntary. By such voluntary entrance into the academic community of the University, students voluntarily assume the obligations of performance and behavior imposed by the University relevant to its lawful missions, processes, and functions.

d. When students enter the University, it is assumed that they have a serious purpose and a sincere interest in their own social and intellectual development. They are expected to learn to cope with problems with intelligence, reasonableness, and consideration for the rights of others; to obey laws and ordinances of the nation, state, and community for which they, as well as the University, are a part. As students prize rights and freedoms for themselves, they are expected to respect the rights and freedoms of others.

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

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

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

## General Rules and Regulations on Campus

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

disciplinary action.

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

## HAZING

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

According to state law, a person can commit a hazing offense not only by engaging in a hazing activity, but also by soliciting, directing, encouraging, aiding or attempting to aid another in hazing; by intentionally, knowingly or recklessly allowing hazing to occur; or by failing to report in writing to the dean of students or other appropriate individual of the institution firsthand knowledge that a hazing incident is planned or has occurred. The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution for hazing under the law. An organization commits an offense if the organization condones or encourages hazing or if an officer or any combination of members pledges or alumni of the organization commits or assists in the commission of hazing.

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event in good faith and without malice to the dean of students or other appropriate individual of the institution and immunizes that person from participation in any judicial proceeding resulting from that report. Additionally, a doctor or other medical practitioner who treats a student who may have been subject to hazing may make a good faith report of the hazing activities to police or other law enforcement officials and is immune from civil or other liability that might otherwise be imposed or incurred as a result of the report. The penalty for failure to report is a fine of up to \$1,000, up to 180 days in jail, or both. Penalties for other hazing offenses vary according to the severity of the injury which results in fines from \$500 to \$10,000 and/or confinement for up to two years. The law does not affect or in any way restrict the right of the University to enforce its own rules against hazing.

The law defines hazing as any intentional, knowing, or reckless act, occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in or maintaining membership in any organization whose members are or include students at an educational institution.

*Hazing includes, but is not limited to:*

- Any type of physical brutality, such as whipping, beating, striking, branding, electric shocking, placing of a harmful substance on the body or similar activity.
- Any type of physical activity, such as sleep

deprivation, exposure to the elements, confinement in a small space, calisthenics or other activity that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student.

- Any activity involving consumption of food, liquid, alcoholic beverage, liquor, drug or other substance which subjects the students to an unreasonable risk or harm or which adversely affects the mental or physical health of the student.
- Any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame or humiliation, or that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subsection.
- Any activity that induces, causes or requires the student to perform a duty or task which involves a violation of the penal code.

## ☪ SEXUAL ASSAULT

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

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

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

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

*Information and assistance is also available through:*

- Student Counseling Center, 956/381-2574, UC 109
- The Counseling Center has trained counselors who offer individual, personal and group counseling to students who are the victims of sexual assault.
- Student Health Services 956/381-2511, Student

Health Center

- The Student Health Clinic provides medical services to students who have been victims of sexual assault and can be the first contact after a sexual assault, during clinic hours. After hours, students are encouraged to contact the University Police Department so that a victim advocate can be sent to meet the student at a local hospital. Center hours are 8 a.m. to 7 p.m. Monday through Thursday and 8 a.m. to 4 p.m. on Friday.
- Campus Assault Response Effort (CARE) 956/381-5375, UC 320
- The CARE program has trained victim advocates that are able to assist students who have been the victims of sexual assault.
- The Rape Crisis Center, 1-800-580-4879, 420 N. 21st, McAllen, Texas
- Women Together/Mujeres Unidas offer services for sexual assault victims. The Rape Crisis Center offers a 24-hour hotline, victim's assistance and confidential counseling.

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

## ☪ MEDICAL TREATMENT

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

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

## ☪ 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.) While solicitation is prohibited on any property, street, or sidewalk, or in any building, structure, or facility owned or controlled by the University or the University of Texas System, please refer to the policy for a list of permissible activities.

# STUDENT SERVICES

## ☪ CAREER SERVICES

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 life-long career success.

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

### Individual Career Counseling

Students are encouraged to discuss their choice of major, as well as related career plans, with the counseling staff of Career Services. Advisors are also available to review resumés, 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 resumés 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 of Texas-Pan American's official job/resume 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 make an appointment with his/her appropriate advisor.

### Walk In Hours

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

### Career Fairs

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

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

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

\*Extended Hours – 5-6 p.m. are offered in the Fall (September-November) and Spring (January-April) semesters.

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

## U HIGH SCHOOL TO UNIVERSITY PROGRAMS AND TESTING SERVICES

The Office of High School to University Programs and Testing Services promotes educational excellence in local public schools by providing University resources and services to support a wide variety of programs and activities. These initiatives are designed to encourage students to pursue high levels of academic achievement in high school and to help prepare them for success in college and beyond. Web site: <http://step.utpa.edu>.

The Advanced Placement Summer Institutes prepare high school and middle school teachers to teach Advanced Placement and Pre-AP courses. These intensive week long training sessions are sponsored by the University in cooperation with the College Board.

Advanced Placement Summer Institutes  
 UTPA Annex, 2412 S. Closner  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7570  
 E-mail: [apsi@utpa.edu](mailto:apsi@utpa.edu)

The Concurrent Enrollment program allows outstanding high school juniors and seniors to enroll in University courses and receive college credit. Concurrent Enrollment opportunities are offered through both distance learning and on-campus attendance programs. The High School to University Program makes tuition incentives available to qualified students from participating school districts.

Concurrent Enrollment  
 UTPA Annex, 2412 S. Closner  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7570  
 E-mail: [ce@utpa.edu](mailto:ce@utpa.edu)

Texas Scholars, an initiative of the Texas Business and Education Coalition, encourages secondary students to enroll in challenging courses and to complete the Recommended high school curriculum. UT Pan American supports the program by serving as a resource for school districts and by providing incentives to students.

Texas Scholars  
 UTPA Annex, 2412 S. Closner  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7570  
 E-mail: [ce@utpa.edu](mailto:ce@utpa.edu)

The Training for Educators program provides a wide

variety of in-service training opportunities for professionals and paraprofessionals employed in the field of education. Non-credit courses, workshops and certificate programs are available for teachers, counselors and substitute teachers.

Training for Educators  
 UTPA Annex, 2412 S. Closner  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7570

## U TESTING SERVICES

Testing Services offers numerous national and institutional examinations such as the ACT/ ACT-Residual, Scholastic Assessment Test (SAT), Graduate Record Exam (GRE), Graduate Management Admissions Test (GMAT), Law School Admissions Test (LSAT), Medical College Admission Test (MCAT), The Higher Education Assessment- THEA/THEA (QT), ACCUPLACER, Test of English as a Foreign Language (TOEFL), Institutional TOEFL, College Level Examination Program (CLEP), TExES/ ExCET and TExES Representative forms and a number of others.

Testing Services  
 UTPA Annex, 2412 S. Closner  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7584 or 7585  
 E-mail: [testing@utpa.edu](mailto:testing@utpa.edu)

## U NEW STUDENT ORIENTATION

All entering freshmen and transfer students are required to participate in a New Student Orientation Program. The orientation program is conducted by Admissions and New Student Services and is a retention initiative designed to connect new students to UTPA.

The mission is to introduce new students and their family members to the University. During orientation, new students and their families receive a campus tour and are introduced to faculty, academic advisors, curricular and degree requirement information and course registration. Students also receive information about student life, cultural and athletic events, and information regarding accessing student services such as tutoring, student health, counseling, and campus events.

UTPA recognizes that family plays a strong role in the success of students. An additional Family Orientation is also part of the orientation program. By allowing family members to participate in the orientation program, students become acclimated to their new environment more quickly.

New Student Orientation programs are held during late fall for spring semester enrollment and in late spring and early summer for both summer sessions and fall semester enrollment. A fee of \$50 is assessed to each new student participating in the orientation program. A non-refundable \$15 portion of this fee is required to reserve a seat for each orientation session. Once an academic schedule has been made, the balance of \$35 is applied to the student's tuition account.

## ☪ **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.

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

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

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

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

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

## ☪ **STUDENT HEALTH SERVICES**

Student Health Services is here to meet the health care needs of our students so they can focus on their studies. 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.

## ☪ **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, starting January 1, 2002

(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 causes 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, so 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.

### **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 956/381-2511 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 Web sites:

CDC Disease Information  
<http://www.cdc.gov/ncidod/dbmd/diseaseinfo/>

American College Health Association  
<http://www.acha.org/>

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 956/381-2511.

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

**U 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.

**U 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.

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.

## U 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.

In compliance with the Texas Administrative Code, section 97.64, the following are required:

- *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 13<sup>th</sup> 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 Residents

Incoming students to The University of Texas-Pan American to House Bill 4189 (HB4189) was passed during the 2009 legislative session and recently signed into law. This new law, which is effective January 1, 2010, requires that all first-time students attending an institution of higher education in the state of Texas, including transfer students, who plan to reside in University housing show evidence of having received the Meningococcal Meningitis Vaccination at least 10 days prior to check-in. 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 you will not be able to check in to University Housing. Failure to submit documentation of the required vaccination does not alleviate the student's responsibility under any contractual



relationship with Residence Life.

The Meningococcal Meningitis Vaccination Requirement Form and documentation can be mailed, faxed, emailed or hand delivered to the Office of Residence Life. 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:

Office of Residence Life  
University Center #315  
1201 W. University Drive  
The University of Texas-Pan American  
Edinburg, TX 78539  
956/381-3439

## ☪ **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 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 956/318-5375. Substance Abuse Services is open from 8 a.m. to 6 p.m., Monday through Thursday and Friday from 8 a.m. to 5 p.m. Appointment may be made at other times to fit the student's schedule.

## ☪ **STUDENT PUBLICATIONS**

Students at UT Pan American are invited to contribute and work on the staff of student publications. Writing, editing and photography usually start before the opening of classes in the fall semester. Some positions are paid, but volunteer workers also are sought as reporters, 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, telephone 956/381-2541, fax 956/316-7122, Web page: [www.utpa.edu/dept/panamerican](http://www.utpa.edu/dept/panamerican).

## ☪ **CLUBS AND ORGANIZATIONS**

A variety of clubs and organizations offer the student friendship, relationships with people of similar interests, avenues for organized and meaningful service and opportunities for self-development. Because new organizations are formed each year, a complete updated list and assistance in starting up new organizations is available in the Office of Student Development, University Center, Room 205, telephone 956/381-2660 or visit the Web at [www.osd.utpa.edu](http://www.osd.utpa.edu).

### **Academic Organizations**

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

### **Student Government Association**

The Student Government Association (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. They UPB sponsors various events throughout the year including concerts, comedy, coffeehouse, lectures, cultural, bus trips and special events. By utilizing the expertise of seven student committee chairs, UPB ensures that each experience provides an opportunity for networking, leadership development, strong friendships and lasting memories.

### **Fraternity and Sorority Life**

Social fraternities and sororities have been a vital part of

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

### Honor Societies

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

### Cultural Organizations

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

### Special Interest Organizations

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

### Recreational Organizations

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

### Service Organizations

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.

### UTPA Fraternities

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

### UTPA Honor Societies

- Alpha Lambda Delta
- Alpha Phi Sigma
- Golden Key International Society
- Lambda Alpha
- Phi Kappa Phi
- Phi Theta Kappa Alumni Association

- Psi Chi
- Sigma Tau Delta

### UTPA Student Government Association

- UTPA Sororities
- Alpha Sigma Tau
- De Ha Xi Nu
- Delta Zeta
- Eta Omega Tau
- Kappa Delta Chi
- Sigma Lambda Gamma

### UTPA Special Interest Organizations

Reflect a wide range of interests and include political and social action-based organizations, artistic experiences, hobbies and activities.

### UTPA Multicultural Organizations

Represent and reflect UTPA's ethnic and international diversity.

### UTPA Departmental Organizations

- Accounting Society
- ACTUE
- Advertising Club
- ALEGRE
- Alpha Kappa Psi
- American Advertising Federation
- American Marketing Association
- American Sign Language Club
- American Society of Mechanical Engineers
- Anthropology Club
- Asociacin de Futuros Maestros de Español
- Association for Computing Machinery
- Association of Clinical Laboratory Sciences
- Association of Information Technology Professionals
- Association of Public Administration
- Bilingual Education Student Organization
- Biology Club
- Bronc Cadet Club
- Bronc Pre-Pharmacy Club
- Criminal Justice Association
- Dr. Wieners Society of Mathematics
- Elliott Chemical Society
- Financial Management Association
- Forum on International Relations and Business Affairs
- French Club
- Graduate Association of Student Social Workers
- Health and Kinesiology Club
- History Club
- Institute for Electrical and Electronic Engineers
- Julian Castillo Association of Physical Assistants
- MBA Association
- Music Educator National Conference (Chapter 652)
- National Student Speech Language and Hearing Association
- Philosophy Club
- Political Science Association

Pre-Law Society  
 Pre-Med/Bio-Med Club  
 Psychology Club  
 Public Relations Student Society of America  
 Rehab Club  
 Residence Hall Association  
 Social Work Association  
 Society for Human Resource Management  
 Society for Manufacturing Engineers  
 Society of Automotive Engineers  
 Society of Hispanic Professional Engineers  
 Society of Women Engineers  
 Sociology Club  
 Student Council of Exceptional Children  
 Student Dietetics Association  
 Students in Free Enterprise  
 Student Nursing Organization  
 Student Occupational Therapy Association  
 University Program Board  
 UT Cares

## ☪ The Office of Residence Life: Student 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 956/381-3439. 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: 956/381-3439  
 Fax: 956/384-5055  
 E-mail: [home@utpa.edu](mailto:home@utpa.edu)  
 Web: <http://www.utpa.edu/reslife>

## ☪ Residence Halls

### Contract Policy

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

### Housing Dining Services

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

### Room Furnishings

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

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

### Residence Hall Services

For 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
- Community kitchenette and microwave
- Recreation room (with pool table, foosball, air hockey table and cable television)
- Lounges
- Refrigerator rental
- Free on-site student parking

### Safety and Security

Providing a safe living and learning environment for University residents is the foremost mission of 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 night assistants trained in emergency procedures are available to assist residents when necessary.

## How to Apply

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

The University of Texas-Pan American  
Office of Residence Life  
1201 W. University Drive  
Edinburg, TX 78539-2999  
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 refunded within two to three weeks upon official check out or cancellation of the Residence Hall Reservation Agreement provided that all deadlines are met, procedures are followed, no damage to the facility is recorded and no extra room cleaning is required.

## ◡ BRONC VILLAGE APARTMENTS

### Leasing Policy

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

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

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

### Dining Services

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

### Room Furnishings

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

- One single bed
- One chest of drawers
- One built-in closet
- One desk and chair
- Individual network connections
- Sofa
- Chair
- Multi-use cube
- End table
- Dishwasher
- Conventional microwave

- Stove/oven
- Full-size refrigerator
- Washer/dryer units

## Bronc Village Services

- Mail delivery
- Garbage collection
- Free on-site student parking

## How to Apply

To reserve an apartment space, complete a Bronc Village 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 Bronc Village and is transferable from lease term to lease term. Deposits are refunded within two to three weeks upon official check out or cancellation of the Bronc Village Reservation Agreement provided that all deadlines are met, procedures are followed, no damage to the facility is recorded and no extra room/apartment cleaning is required.

## ◡ DEPARTMENT OF COLLEGE ACCESS AND SUPPORT PROGRAMS

The Department of College Access and Support Programs (CASP) serves select populations of students traditionally underrepresented in higher education by promoting the completion of secondary education, facilitating the acquisition of skills for academic success and providing postsecondary education access and transition services. Emilia Schunior Ramirez Hall, Room, 1.101 telephone 956/381-2522.

*The following programs comprise CASP:*

- The College Assistance Migrant Program (CAMP) is a federally funded program designed to meet the special educational needs of migrant and seasonal farmworkers and their children in pursuing higher education. CAMP provides outreach, recruitment, academic, supportive and financial assistance to migrant and seasonal farmworkers to help them successfully complete the first academic year of college. Services include academic advising, monthly stipend, tutoring, counseling, career development, life management skills development, educational/cultural trips and follow-up services. Emilia Schunior Ramirez Hall, Room 1.113, telephone 956/318-5333.
- Educational Talent Search (ETS) is a federally funded early intervention outreach program which serves first-generation college potential and/or low-income participants in grades six through 12. The program's objective is to assist participants in the acquisition of skills that will prepare them for entry into the college of their choice. Participants

receive a variety of services which include, but are not limited to, counseling, academic advisement, assistance with financial aid and admissions, study skills, career exploration, interest inventories, visits to postsecondary institutions and educational/cultural trips. UTPA Annex, Room 182, telephone 956/292-7590.

- The High School Equivalency Program (HEP) is a federally funded program offering preparatory classes, testing and placement in employment or postsecondary education for migrant or seasonal farmworkers who dropped out of high school and wish to acquire a GED. Services include academic advising, monthly stipend, tutoring, personal counseling, career development, life management skills development and educational/cultural trips. Emilia Schunior Ramirez Hall, Room 2.207, telephone 956/381-2521.

- The Texas Prefreshman Engineering Program (TexPREP) identifies high achieving middle and high school students with the potential and interest in becoming engineers and scientists to guide them toward acquiring the knowledge and skills required for success in their professional aspirations. Emilia Schunior Ramirez Hall, Room 1.101, telephone 956/381-3634.

- Upward Bound is a federally funded academic enhancement program designed to assist first-generation college potential and/or low-income high school students in developing their potential for success in a postsecondary institution through classroom instruction during the academic year and a six-week summer component on the UTPA campus. Tutoring is offered at host schools, and students are also eligible for stipends. Emilia Schunior Ramirez Hall, Room 2.202, telephone 956/381-2596.

- The Upward Bound Math and Science (UBMS) Program is a federally funded academic enhancement program designed to encourage first-generation college potential and/or low-income high school students to pursue studies and careers in mathematics, science and engineering through classroom instruction and research mentorships under faculty and graduate students during a six-week summer component on the UTPA campus, supplemented by advisement and college success skills sessions during the academic year. Emilia Schunior Ramirez Hall, Room 1.101, telephone 956/380-8703.

- The Valley Outreach Center (VOC) provides outreach services in support of the “Closing the Gaps” and “College for Texans” initiatives. Efforts are clustered around the following principal services:

- Mother Daughter Program provides an intervention program for young women in 7th-8th grades, and their mothers. The program encourages and supports completion of high school and the pursuit of a higher education, while preparing students and mothers to reach out to peers with college access information through participation in High School GO Centers.

- UTPA “GO Center” Resource Center and G-Force offer support and training services to Rio Grande Valley high school and community-based GO Centers, operates a GO Center for use by community members, and facilitates services of the UTPA Collegiate G-Force at schools and other venues in the community.

- The Mobile GO Center provides GO Center college access and financial aid information to students and parents throughout South Texas through a mobile internet-equipped computer lab.

## Other Centers, Support Services and Activities

### ☪ ACADEMIC CENTERS

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

### ☪ BORDER HEALTH OFFICE

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

UTPA Annex, 2412 S. Closner, Edinburg, TX 78539-2999  
 Phone: 956/381-3687  
 Email: tmbhco@utpa.edu  
 www.utpa.edu/bho

### ☪ CENTER FOR BORDER ECONOMIC STUDIES

The Center for Border Economic Studies is a public policy research unit dedicated to the study of problems unique to the U.S.-Mexico border region. Its research efforts are directed at publishing working papers and technical reports that encompass a wide array of economic and socioeconomic issues. CBEST-affiliated scholars conduct policy-oriented research in four key areas of importance to the border region: (1) regional economic development and trade, (2) labor market and immigration, (3) health and environmental policy; and (4) information technology. The center also publishes a quarterly newsletter, Border Business Briefs, of economic indicators in the Lower Rio Grande Valley as well as an annual forecast of these indicators.

Office of Graduate Studies, Room AB 116  
 Phone: 956/381-3661  
 Email: cbest@utpa.edu  
 www.utpa.edu/cbest

## ☪ COASTAL STUDIES LABORATORY

The Coastal Studies Laboratory (CSL), established as a marine biology laboratory in 1973 in Isla Blanca Park on South Padre Island, was reorganized and expanded in 1985 with a concentration on University education, public education and coastal research. The CSL's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island. The CSL also supports classes and field trips from the University and other schools; many universities in Texas and surrounding states use the CSL facilities for field trips each year. A number of marine-oriented courses are offered at the lab.

100 Marine Lab Drive  
South Padre Island, Texas 78597  
Phone: 956/761-2644  
E-mail: [coastal@utpa.edu](mailto:coastal@utpa.edu)  
[www.utpa.edu/dept/csl/csl.html](http://www.utpa.edu/dept/csl/csl.html)

## ☪ ENGLISH LANGUAGE INSTITUTE

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

Lamar Building, Room 1  
Phone: 956/381-2133  
Email: [eli@utpa.edu](mailto:eli@utpa.edu)  
<http://www.utpa.edu/eli>

## ☪ INSTITUTE FOR POPULATION HEALTH POLICY

The Institute for Population Health Policy (IPHP) coordinates health policy research initiatives and provides resources for policy-oriented research to faculty and students at UTPA. The IPHP facilitates population health policy research on campus and disseminates research activities to both academic and health policy circles. The long-term goal of the institute's research program is to improve health status and reduce health disparities. The institute's goal is 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 & Technology Bldg., Room 1.404N  
Phone 956/318-5306  
[www.utpa.edu/iphp](http://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.

Department of Mathematics, MAGC 3202  
Phone 956/381-3452  
[www.math.utpa.edu/ijmms.html](http://www.math.utpa.edu/ijmms.html)

## ☪ NEUHAUS CENTER FOR ENTREPRENEURSHIP AND ECONOMIC EDUCATION

The Neuhaus Center for Entrepreneurship and Economic Education is a multifaceted center that aims to propagate the benefits of entrepreneurship and the market system to the Rio Grande Valley community. With regard to education programs, the center coordinates a set of courses on entrepreneurship that undergraduate students in the College of Business Administration may take to obtain a minor in entrepreneurship. The center is affiliated with the Texas Council on Economic Education. Through this partnership, programs on economic education are offered to elementary and secondary school teachers. The research activities of the center foster basic and applied research on the characteristics and workings of the small firm with a particular emphasis on the Rio Grande Valley and northern Mexico. One primary research goal of the center is to better understand the forces driving small business success in the local community.

College of Business Administration, Room 216B  
Phone: 956/381-7136  
<http://coba.utpa.edu/neuhaus>

## ☪ RAÚL YZAGUIRRE POLICY INSTITUTE

The Raúl Yzaguirre Policy Institute (RYPI) is the first national Latino leadership and policy institute along the US-Mexico border. The mission of RYPI is to create a world-class center for scholarship research in areas affecting and impacting Hispanics and to serve as a catalyst in the constructive formation of tomorrow's Hispanic leaders. The main goals of the institute include (1) train Latino leaders at all levels and expose all leaders to Latino issues and (2) research regional, national and international issues

that impact or are impacted by Latinos. The policy research program collects and disseminates information pertaining to the social, political and economic forces affecting Hispanics in America. Researchers analyze the effects of government actions relating to public policy including their causes and consequences.

Office of Graduate Studies, Room AB 116  
Phone: 956/381-3661  
[www.utpa.edu/yzaguirre](http://www.utpa.edu/yzaguirre)

### ☪ **SOUTH TEXAS BORDER HEALTH DISPARITIES CENTER**

The South Texas Border Health Disparities Center (STBHDC) 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 and Technology Bldg., Room  
1.404N  
Phone: 956/316-7937  
[www.utpa.edu/health](http://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,  
Room 1.112  
Phone: 956/381-3587

### ☪ **STATISTICAL CONSULTING CENTER**

The Statistical Consulting Center is an educational and service center within the Department of Mathematics at UTPA that provides training to students, assists individuals

in practical use of statistics, participates in research projects by providing high quality statistical advice and collaborates with researchers in interdisciplinary research activities. The center provides statistical consulting advice on design of experiments, data management, statistical modeling, and statistical analysis of experiments and studies. Its customers include students, faculty and research groups from UTPA as well as researchers from academic and non-academic organizations in the Rio Grande Valley.

Department of Mathematics  
Phone: 956/381-3452  
[www.math.utpa.edu/xhwang/scc.html](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, Room 1.301  
Phone: 956/316-7011  
Email: [tmac@utpa.edu](mailto:tmac@utpa.edu)  
[www.utpa.edu/tmac](http://www.utpa.edu/tmac)

### ☪ **UTPA PRESS**

Established in 1983 as an extension of the teaching mission of the University, the UTPA 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., Room 9A  
Phone 956/381-3638  
Email: [bookworm@utpa.edu](mailto:bookworm@utpa.edu)  
<http://utpress.utpa.edu>

## ☪ VALLEY MARKETS AND TOURISM RESEARCH CENTER

The Valley Markets and Tourism Research Center in the College of Business Administration addresses social, cultural, environmental and economic issues related to the tourism industry locally, regionally and nationally. Tourism studies targeted by the center include senior travelers or Winter Texans, Mexican national visitors to the United States, spring breakers at South Padre Island, ecotourism, historic tourism, recreational tourism and local residents' attitudes and reactions toward tourism. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center.

College of Business Administration, Room 124A  
Phone 956/381-2829  
<http://coba.utpa.edu/tourism>

## Community Engagement

The mission of Community Engagement is to enhance UTPA's engagement with the community to meet challenges and maximize opportunities. Community Engagement is located in the International Trade and Technology Building and the UTPA Administrative Annex Building and includes three focus areas. Each of these areas, listed below with contact information, includes a number of sponsored centers, projects and initiatives.

- **Economic and Community Development**— Located at the International Trade and Technology Building, 1201 W. University, Edinburg, and can be reached at 956/381-3361 or respective Web sites.
- **Business Development and Innovation**— Located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached at 956/292-7535 or 956/292-7555 or respective Web sites.
- **Rural Enterprise Development**— is located at the UTPA Annex, AASA 160, 2412 S. Closner, Edinburg, and can be reached via 956/292-7555 or 956/292-7535 or respective Web sites.

## ☪ ECONOMIC AND COMMUNITY DEVELOPMENT (ECD)

*Center for Entrepreneurship and Economic Development (CEED):* Serves as a catalyst for business and economic development through the development of public and private partnerships. <http://www.utpa.edu/ceed/>

*International Trade and Technology Center (IT<sup>2</sup>):* Promotes international trade through the use of the latest technology. <http://www.utpa.edu/it2/>

*Data and Information System Center (DISC):* Serves the southernmost 19 counties of Texas by meeting their data and mapping needs. <http://www.utpa.edu/disc/>

*Southwest Border Nonprofit Resource Center (SBNRC):* Builds capacity for sustainable, long-term development of nonprofit organizations through technical skills training, funding sources research and philanthropic-organizations' networks. <http://www.utpa.edu/sbnrc/>

*Mobile Community-Development Initiative (MCDI):* Extends Community Engagement resources into South Texas communities through the use of a technologically advanced mobile unit. <http://www.utpa.edu/mcdi/>

*Hispanic Engineering Science and Technology (HESTEC) Program:* Promotes science, technology, engineering and math careers among South Texas students and culminates each year in a week-long event that promotes science literacy. <http://www.utpa.edu/hestec/>

*Festival of International Books and Arts (FESTIBA):* An annual university community engagement event that celebrates the arts and humanities, encourages literacy, and broadens cultural awareness. <http://www.utpa.edu/festiba/>

## ☪ BUSINESS DEVELOPMENT AND INNOVATION (BDI)

*Small Business Development Center (SBDC):* Provides managerial and technical assistance to small business owners and entrepreneurs through free one-on-one business counseling and through workshops and seminars. <http://www.utpa.edu/sbdc/>

*Project ASSIST:* Assists small businesses along the Texas border with Mexico that are negatively impacted by NAFTA, with an emphasis on job creation and retention in South Texas. <http://www.utpa.edu/assist/>

*Procurement Technical Assistance Center (PTAC):* Provides counseling, planning assistance and training to business owners in a nine-county South Texas region to assist them in obtaining federal, state, local and private contracts. <http://www.utpa.edu/ptac/>

*Texas Veterans Business Outreach Center (VBOC):* Assists in the creation, retention and development of veteran-owned businesses across Texas and 14 surrounding states through on-line and on-site counseling and through training seminars. <http://www.utpa.edu/vboc/>



## ☪ RURAL ENTERPRISE DEVELOPMENT (RED)

*Texas Rural Cooperative Center (TRCC):* Provides training and technical assistance to rural cooperatives, cooperative members and member businesses in Texas with an emphasis on rural cooperative development in the South Texas region. <http://www.utpa.edu/trcc/>

*Hispanic Producers New Markets Initiative (HPNMI):* Provides training and assistance to Hispanic farmers and ranchers to facilitate their entry into new, non-traditional, and value-added agricultural production in a 38-county Texas border-region area. <http://www.utpa.edu/hnmi/>

*Farm Ownership and Rural Growers Empowerment Project (Project FORGE):* Provides outreach, training and technical assistance to Hispanic producers of traditional crops in a 56-county border-region area in Texas and New Mexico. <http://www.utpa.edu/forge/>

*Farmers' Market Development Center (FMDC):* Assists with the development of farmers' markets and other direct-marketing options for small-scale agricultural producers in a 26-county South Texas Region. <http://www.utpa.edu/fmdc/>

*Initiative to Grow Farmers for Direct Marketing:* Recruits small-scale farmers to participate in farmers' markets that are located in a 26-county region of South Texas. <http://www.utpa.edu/igfdm/>

*Initiative for Child Nutrition through Agriculture (ICNA):* Establishes nutrition gardens at public schools in South Texas and incorporates garden production into school lunch programs. <http://www.utpa.edu/icna/>

# Cultural Activities

## ☪ ART DEPARTMENT EXHIBITS

The Charles and Dorothy Clark Gallery, located in the Fine Arts Complex, and the University Gallery, located in the Communication Arts and Sciences Building (COAS), feature art exhibitions that are free and open to the public throughout the year. Works by The University of Texas-Pan American faculty and students as well as other professional artists are exhibited. Located in the Lamar School complex, the Lamar Gallery exhibits work from the University's permanent collection. The art galleries are administered through the Department of Art. The office for the University Art Galleries is adjacent to the Clark Gallery in the Fine Arts Complex. The gallery director may be reached at 956/381-2655 or by e-mail at [galleries@utpa.edu](mailto:galleries@utpa.edu).

## ☪ DANCE COMPANIES

*UT Pan American Dance Ensemble:* Founded in 1984, the Dance Ensemble is the only modern/contemporary

dance company in the Rio Grande Valley. Membership in the company is open to all UT Pan American students and is determined by audition. The Dance Ensemble focuses on producing formal theatrical dance performances that maintain high artistic and production standards. Health and Physical Education Building II, Room 110, telephone 956/381-2315.

*UT Pan American Folkloric Dance Company:* The UT Pan American Folkloric Dance Company, organized in 1970, has as its purpose the preservation and performance of the dance art of Mexico and Spain. During the performing season, the company presents numerous concerts for school children, the general public and private affairs throughout the University, community and state. Membership in the company is available through class audition. Health and Physical Education Building I, Room 110F, telephone 956/381-2230.

## ☪ FACULTY ARTIST SERIES

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

## ☪ GUEST AUTHOR PROGRAM

Through its Guest Author Program, the Department of English brings prominent literary authors-novelists, poets, dramatists-to campus to address the student body and the public. Department of English, Communication Arts and Sciences Building, Room 211, telephone 956-381-3421.

## ☪ MUSICAL PERFORMANCES

Performing for students and the public are the University Choir, Men's and Women's Choruses, 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 Mariachi and the Valley Symphony Orchestra and Chorale. Telephone 956/381-3471 for more information.

## ☪ ALBERT L. JEFFERS THEATRE

The Albert L. Jeffers Theatre produces seven to 10 full-length plays each year, including three to four plays in the summer during Pan American Summer Stock (PASS) and four to five plays in the fall and spring. The community can purchase individual tickets to each performance; season subscriptions are also available.

University ID cardholders are permitted two free admissions per ID and as space permits. Actors include University students, faculty and staff, along with community members. The Albert L. Jeffers Theatre seeks to present, within a four-year cycle, quality productions featuring examples from every major genre of dramatic literature. Performances for children and children's theater classes are

frequently offered. Funding for the Albert L. Jeffers Theatre is provided by Student Activity Fees, donations, grants and other sources. Communication Arts and Sciences Building (COAS), Box Office first floor, telephone 956/381-3581.

## U PUBLIC USE OF FACILITIES

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

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

Anyone from outside the University who is seeking information about scheduling and use of University Special Use Facilities should contact the Office of the Director of Auxiliary Services at 956/381-2224.

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

# Undergraduate Academic Programs

## U A LIBERAL ARTS EDUCATION

Students' education at The University of Texas-Pan American will be better measured by the skills they learn and the knowledge they gain than by the number of credit hours they take. UTPA wants students to improve their abilities to analyze, synthesize, determine values, use and understand mathematics and communicate. No matter what subject a student chooses to major in, he/she will be required to complete courses in fields that reinforce those skills.

To understand the general education and core curriculum requirements, students should understand the established goals. These are the characteristics they will be given the opportunity to attain from their work and study here.

## U THE GOALS OF A LIBERAL ARTS EDUCATION

- An inquiring attitude which acknowledges the many-

sided nature of most important questions, recognizes the need to examine inherited judgments, and reveals a desire for continued learning and creative expression.

- Competence in the processes of learning, including the abilities to read, write, listen and speak, a knowledge of logic and scientific method, and the mental self-discipline needed for rigorous critical analysis and synthesis of facts and ideas.

- The ability to use words and numbers accurately and effectively, and communicate clearly through the spoken and written word as well as through the symbols of mathematics.

- A historical perspective provided by familiarity with the most significant events, people and achievements of the past; an understanding of the most enduring ideas and values in human history; and a knowledge of the many ways these are expressed in world cultures and in social, political and economic institutions.

- A general knowledge and appreciation of nature, science and technology.

- A general knowledge and appreciation of the fine and performing arts and of literature.

- An understanding of self, along with empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.

- An appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; and sensitivity to the need for informed, independent, moral and ethical decisions.

- Knowledge of the economic and geographical inter-relationships of regions and nations and their resources.

These are the goals of a liberal arts education and the qualities that distinguish a liberally educated person. They are the skills and characteristics that UTPA hopes to nurture in its students through the college and core curriculum requirements.

# Core Curriculum Requirements

## U MISSION

The purpose of the general education core curriculum is to provide knowledge and skills and encourage attitudes that will serve undergraduate students with a foundation for lifelong learning, will improve their quality of life and will broaden their perspective about constructive participation in a global human community. The mission will be accomplished through an interdisciplinary core curriculum that reflects convergences among disciplines and promotes the growth and development of each student.

## U GOALS

The goals of the University core curriculum are to

prepare students to:

1. Acquire basic intellectual competence in reading, writing, speaking, listening, critical thinking and computer literacy.
2. Develop competence in the tools and principles of mathematics and logical reasoning in problem solving.
3. Develop an inquiring attitude and demonstrate a desire for continued learning and creative expression.
4. Develop the capacity to discuss and reflect upon individual, political, economic and social aspects of life so as to be responsible members of society in a culturally and ethnically diverse world.
5. Recognize the importance of maintaining health and wellness.
6. Use knowledge of how nature, technology and science affect their lives.
7. Develop personal values for ethical behavior to enhance their potential to make constructive contributions to society.
8. Develop the ability to appreciate, and make informed aesthetic judgments in, disciplines such as the fine and performing arts and literature.
9. Understand the interrelationships of the scholarly disciplines.

The core curriculum requirements apply to all students who enter The University of Texas-Pan American to pursue a bachelor's degree. Core curriculum requirements total 43 hours of coursework, primarily in the communication, mathematics, humanities, social sciences and natural sciences. These 43 hours must be completed before graduation with at least a 2.0 grade point average. All undergraduate students must complete the requirements.

## U SUMMARY OF CORE CURRICULUM REQUIREMENTS

Communication	6 hours
• six hours of freshman English	
Science	8 hours
• eight hours of a laboratory science	
Mathematics	3 hours
• three hours of college algebra or higher-level mathematics, or three hours of Introduction to Formal Logic (for majors in College of Arts and Humanities and College of Social and Behavioral Sciences)	
Humanities and Visual and Performing Arts	9 hours
• three hours of sophomore literature	
• three hours from the arts	
• three hours of philosophy, modern or classical language, literature, or anthropology	
Social and Behavioral Science	15 hours
• six hours of American history	
• six hours of American and Texas government	

- three hours from any one of these areas: anthropology, criminal justice, economics, psychology or sociology

Institutionally Designated Option:

Computer Literacy 2 hours

\* Courses that may be used to satisfy these requirements are outlined later in this section.

## U SPECIAL CONSIDERATIONS FOR TRANSFER STUDENTS

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

## U STATE CORE CURRICULUM AND TRANSFERABILITY

In fall 1999, a new core curriculum went into effect pursuant to the Texas Education Code. Beginning with the 1999 fall semester, Texas institutions honor the block transfer of completed core curricula and individual transfer of core courses, as specified in statute (Texas Education Code 61.821-829) and the Texas Higher Education Coordinating Board rules (Chapter 5, Subchapter S). Students who transfer will have their satisfactorily completed core courses transferred and applied as specified in the rules.

## U SPECIFIC COURSES THAT MEET CORE CURRICULUM REQUIREMENTS

Individual degree programs may require specified courses be completed to meet these requirements rather than allowing the full range of selections shown here. Students should check degree requirements in this catalog for the degree they are pursuing to determine what specific courses, if any, are recommended or required to fulfill these requirements.

A. Communication 6 hours

Group 1. Freshman English 6 hours

Complete one of the following:

ENG 1301 Composition

or

ENG 1387 Rhetoric and Composition  
(Honors Plan)

Complete one of the following:

ENG 1302 Rhetoric

ENG	1388	or Rhetoric and Literature (Honors Plan)	
B. Natural Science			8 hours
(Must be in the same discipline.)			
Complete one of the following sequences:			
Astronomy			
ASTR	1401	General Astronomy	
ASTR	1402	General Astronomy	
Biology			
BIOL	1401	General Biology	
BIOL	1402	General Biology	
		or	
BIOL	1487	Honors Biology	
BIOL	1488	Honor Biology	
		or	
BIOL	2403	Anatomy and Physiology	
BIOL	2404	Anatomy and Physiology	
Chemistry			
CHEM	1301	General Chemistry I and Laboratory	
CHEM	1101	Laboratory	
CHEM	1302	General Chemistry II and Laboratory	
CHEM	1102	Laboratory	
		or	
CHEM	1303	Chemistry in Society I and Chemistry in Society Lab I	
CHEM	1103	Chemistry in Society Lab I	
CHEM	1304	Chemistry in Society II and Chemistry in Society Lab II	
CHEM	1104	Chemistry in Society Lab II	
Geology			
GEOL	1401	Physical Geology	
GEOL	1402	Historical Geology	
Physical Science			
PSCI	1421	Physical Science	
PSCI	1422	Physical Science	
Physics			
PHYS	1401	General Physics	
PHYS	1402	General Physics	
PHYS	2401	Physics for Scientists and Engineers	
PHYS	2402	Physics for Scientists and Engineers	
C. Mathematics			3 hours
MATH	1340	College Algebra or equivalent or upper-level mathematics course, such as MATH 1341, MATH 1348, MATH 1389, MATH 1401, MATH 1388 (Honors Plan), but excluding MATH 2306 and MATH 2307.	
or			

PHIL	1321	Introduction to Formal Logic (For majors in College of Arts and Humanities or College of Social and Behavioral Sciences)	
D. Humanities			9 hours
Group 1. English Literature			3 hours
Select one from 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	2308	Readings in Special Topics	
ENG	2313	Readings in Dramatic Literature	
ENG	2387	Readings in World Literature (Honors Plan)	
ENG	2388	Readings in World Literature (Honors Plan)	
Group 2. The Arts			3 hours
Select one from the following:			
ART	1301	Art Appreciation	
ART	1302	Art of our Times	
COMM	2312	Theatre Appreciation	
DANC	2323	Dance Appreciation	
MUS	1307	Music Appreciation	
MUS	1308	Mexican Folk Music	
LAMS	2301	Inter-American Studies	
COMM	1301	Cinema Appreciation	
Group 3. Philosophy and Modern or Classical Language Literature			3 hours
PHIL	1310	Introduction to Philosophy	
PHIL	1320	Introduction to Logic	
PHIL	2330	Ethics	
PHIL	2340	Philosophy of the Person	
PHIL	2350	Social Philosophy	
PHIL	2370	Eastern Thought	
PHIL	2380	Latin American Philosophy	
PHIL	2390	Professional Ethics	
PHIL	2391	Biomedical Ethics	
PHIL	2392	Business Ethics	
PHIL	2393	Engineering Ethics	
MCLL	2301	Topics in Modern and Classical Literature	
ANTH	1354	The Anthropology of Expressive Culture	
E. Social Sciences			15 hours
Group 1. American History			6 hours
Complete one of the following sequences:			
HIST	2313	American Heritage I and American Heritage II or American Heritage I (Honors Plan)	
HIST	2314	American Heritage II or American Heritage I (Honors Plan)	
HIST	2387	American Heritage I (Honors Plan)	

		and American Heritage II (Honors Plan)	
HIST	2388		
Group 2. Political Science			6 hours
Complete one of the following sequences:			
POLS	2313	U.S. and Texas Government and Politics and	
POLS	2314	U.S. and Texas Government and Politics or	
POLS	2387	U.S. and Texas Government and Politics (Honors Plan) and	
POLS	2388	U.S. and Texas Government and Politics (Honors Plan)	
Group 3. Other Social Science			3 hours
Select one from one of the following areas:			
Area 1. Anthropology			
ANTH	1323	Introduction to Cultural Anthropology	
ANTH	1324	Human Evolution	
ANTH	1342	Introduction to Archaeology	
ANTH	1353	Introduction to Folklore	
Area 2. Criminal Justice			
CRIJ	1301	Introduction to the Criminal Justice System	
CRIJ	1307	Crime in America	
Area 3. Economics			
ECON	1301	Introduction to Economics	
ECON	2301	Principles of Economics I	
Area 4. Psychology			
PSY	1310	Introduction to Psychology	
Area 5. Sociology			
SOCI	1313	Principles of Sociology	
SOCI	1323	Current Social Issues	
SOCI	1387	Principles of Sociology (Honors Plan)	
SOCI	2331	Education and Society	
SOCI	2333	Marriage and the Family	
F. Institutionally Designated Options			
Computer Literacy		2 hours	
Select one from the following:			
CIS	1201	Introduction to Information Systems and Technology	
CSCI	1201	Introduction to Computer Information Technology	
MECE	1221	Engineering Graphics	
CSCI	1202	Computer and Information Technology for Education (for Education majors)	

## ☪ RAFAEL A. "FELO" AND CARMEN GUERRA HONORS PROGRAM

The Rafael A. "Felo" and Carmen Guerra Honors Program (GHP) strives to serve the needs of academically talented and ambitious students who value intellectual growth and want to make the most of their undergraduate education by providing them an enriched and challenging curriculum. The program offers an alternative to large lecture classes by offering small classes led by exceptional professors and concentrating on exploring new and innovative ideas and integration of concepts. This, along with the extraordinary opportunity for conducting research at the undergraduate level, makes for a unique and exciting experience. The Honors experience is one that fosters long-term intellectual and personal growth. Membership in the Honors Program is a privilege, a commitment and a voyage of excellence.

### Honors Classes

- Honors classes are small and generally limited to 20 students or less, which allows for more personal attention and interaction with professors.
- Honors classes do not hinge on lectures and textbooks alone, but rather place a significant emphasis on critical thinking and participation.
- Honors classes provide a chance to work with academically gifted students from a variety of backgrounds.
- Honors classes provide cultural enrichment.
- Honors classes afford students the opportunity to conduct independent research under the guidance of experienced faculty mentors.
- Honors classes offer students the opportunity to study abroad.

NOTE: Students with a **cumulative GPA of 3.3** or higher and who are not yet in the Honors Program may register for an Honors course in other departments (i.e., English, Political Science, Math, Computer Science, etc.) **with permission from GHP** and on a **space-available basis**. Courses in Honors—those with HONR in the prefix—are open **only** to students who are presently in GHP and in "good standing."

### Admission Eligibility Requirements

Students may be admitted to the program at any time during the year; however, they are not considered active until they are enrolled at UTPA. Students who meet the following minimum criteria are eligible to apply:

- I. Entering Freshmen:
- ACT Composite of 24 or higher
  - SAT of 1110 or higher
  - Graduate in the upper 10% of high school class
  - A 90 or above average in high school academic courses

### II. Currently Enrolled/Transfer Students:

- A minimum cumulative GPA of 3.3 at UTPA
- 12 earned/credit hours at UTPA

*(Please note: These are minimum requirements and are not guarantees for admission.)*

Students must apply directly to GHP and submit an Honors Admissions Portfolio. Program eligibility is monitored closely each semester by UHP. Once admitted, students must maintain a minimum GPA of 3.3.

### Scholarships

The Guerra Honors Program offers its students the chance to apply for an Honors Merit Scholarship and a Study Abroad Scholarship each fall semester for the following academic year through the University's Excellence Scholarship program. For more information, please contact the Student Financial Services Office.

### Graduating from the Guerra Honors Program

In order to fulfill the requirements of the University Honors Program, students are encouraged to take as many Honors courses as their schedule and/or degree plan allows each semester. Most importantly, students must have a cumulative GPA of 3.3 or higher and must complete the following Honors core courses prior to graduation:

- HONR 2387 - Humanities I
- HONR 2388 - Humanities II
- HONR 3187 - Honors Seminar – Problems in Honors Independent Studies
- HONR 3387 - Honors Independent Studies-I
- HONR 4387 - Honors Independent Studies-II

Additional Honors courses must be taken to complete a total of 20-25 hours of Honors coursework.

### Graduating as an Honors Program Scholar

Honors students who complete the Honors coursework and program requirements and graduate as an Guerra Honors Program Scholar will have this designation recorded on their diplomas, as well as their transcripts. They will also have the distinction of wearing an Honors Medallion at graduation.

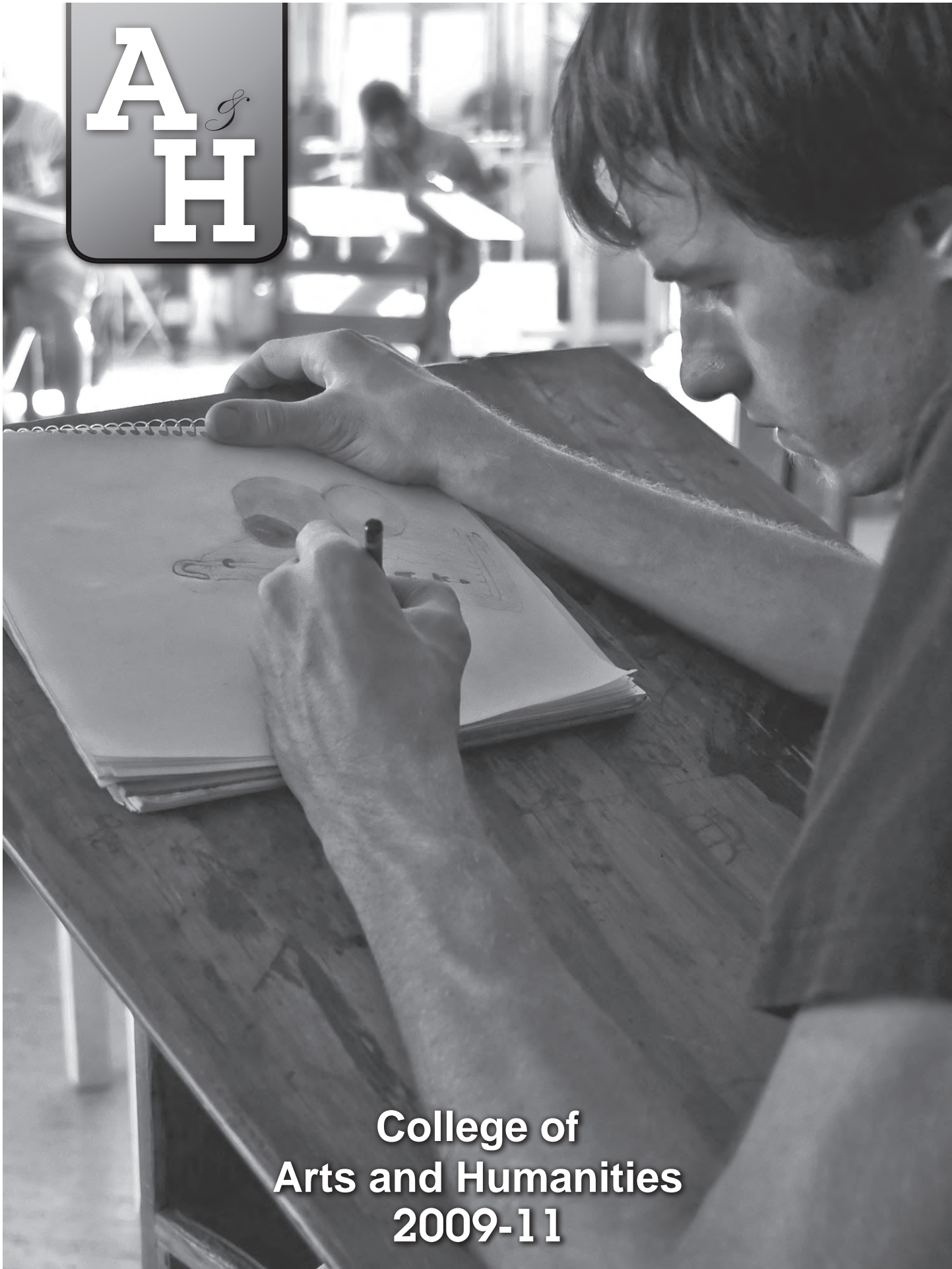
### University Honors Program – Inquiries

For an application or additional information about the Rafael A. "Felo" and Carmen Guerra Honors Program, please contact:

Guerra Honors Program, SBS104  
1201 West University Drive  
Edinburg, TX 78539-2999  
956/381-3461 Voice  
956/381-2484 Fax

E-Mail: [honors@utpa.edu](mailto:honors@utpa.edu)  
[www.utpa.edu/honors](http://www.utpa.edu/honors)





**College of  
Arts and Humanities  
2009-11**

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# College of Arts and Humanities

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## DR. DAHLIA GUERRA, DEAN

Communication Arts and Sciences Building, Room 334  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-2175  
Fax: 956/381-2177  
E-mail: guerrad@utpa.edu  
Web site: www.utpa.edu/colleges/coah

### ▲ GENERAL OVERVIEW

The College of Arts and Humanities includes the Departments of Art, Communication, English, History and Philosophy, Modern Languages and Literature, and Music and Dance.

The goals of the College of Arts and Humanities are based upon the recognition that a liberal arts education is the foundation for all University studies. Consequently, the college endorses the “Goals of a Liberal Arts Education” found on page 98 of this catalog.

### ▲ ACADEMIC PROGRAMS

The college offers the Bachelor of Arts in art, English, history, Latin American studies, journalism, Mexican-American studies, philosophy, Spanish, communication studies, theatre/ TV/ film, and dance. Students may earn a Bachelor of Fine Arts in art and may choose a further specialization in graphic design. Students may also earn a Bachelor of Music degree in Performance.

Students may minor in art, communication, Latin American studies, English, French, history, journalism, Mexican-American studies, music, philosophy, religious studies, Spanish, theatre/TV/film, leadership studies, women studies, Hispanic media studies, film studies, medical Spanish, and dance.

Secondary teacher certification is available in art, English, French, history, journalism, music, Spanish, speech 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.

At the graduate level, students may earn master’s degrees in art, English, English as a second language, history, Spanish, communication, music, and theatre. A cooperative PhD in Spanish with The University of Houston is also offered. More information on master’s degrees is available in the Graduate Catalog.

The College of Arts and Humanities provides several options to satisfy the University core curriculum requirements for the humanities and for the history portion of the social science requirement.

## ▲ Art ▲

### DR MICHAEL WEAVER, INTERIM DEPARTMENT CHAIR

Fine Arts Building B, Room 225  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-3480  
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www.utpa.edu/dept/art

#### FULL-TIME FACULTY

Bradley, Robert, Assistant Professor  
Crisafulli, Anthony, Professor  
De Souza, Carlos, Assistant Professor  
Farris, Marcus “Chad”, Assistant Professor  
Field, Philip S., Professor  
Gilbert, Robert, Assistant Professor  
Hernandez, Leila, Associate Professor  
Hyslin, Richard P., Professor  
Lyles, Donald “Jerry”, Assistant Professor  
Macias, Maria E., Assistant Professor  
Martinez, David, Associate Professor  
Pace, Lorenzo, Professor  
Phillips, Richard E., Associate Professor  
Sanders, Karen, Associate Professor  
Santiago, Reynaldo I., Associate Professor  
Sweigart, Donna, Assistant Professor  
Valadez, Paul, Lecturer

#### EMERITUS PROFESSORS

Manuella, Frank  
Martin, Wilbert Raymond  
Moyer, Nancy  
Nichols, Edward E.

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### ▲ GENERAL OVERVIEW



**Mission**

It is the mission of the department to develop individual directions among its students. Personal expression in art and Art historical investigation are encouraged through the use of technical skills combined with creative and critical thinking, and research. In order to achieve this goal, the following objectives are stressed in each art area:

- Increased visual perception
- Maximum creative thought potential
- Knowledge of technical skills
- Knowledge of current art trends
- Multicultural art knowledge
- A positive work ethic

**General Departmental Requirements**

Students transferring into the department who have more than 15 hours of art courses must present a portfolio to the department chair for advisement into the Bachelor of Fine Arts (BFA) programs. BFA candidates will be expected to participate in a senior exhibit during their last semester of study.

**▲ DEGREE REQUIREMENTS****Bachelor of Arts in Art**

Core Curriculum Requirements 43 hours

Core Courses 39 hours

ART 1311	Drawing I
ART 1334	Design I
ART 1335	Design II
ART 2303	Jewelry/Metalworking I
ART 2321	Painting I
ART 2351	Art Survey I
ART 2352	Art Survey II
ART 2371	Ceramics I
ART 3310	Drawing II
ART 3381	Perception and Expression in Art I
ART 3382	Perception and Expression in Art II
ART 3383	Creative and Critical Thinking
ART 4383	Art Curriculum

Designated Electives 12 hours

Advanced Art History	3 hours
Advanced Studio Art	9 hours

Other Course Requirements 27 hours

COMM1313	3 hours
Advanced Electives	6 hours
Approved Minor	18 hours

TOTAL 121 hours

**Bachelor of Arts with All-Level (EC-12) Certification**

Admission to the College of Education (COE) teacher education programs is required for all undergraduate students seeking teacher certification. Students following all-

level certification degree plans (grades EC-12) should consult with their advisor in the department in which their degree is offered. They should also seek admission requirements and information from the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information [www.utpa.edu/colleges/coe/studentsservices](http://www.utpa.edu/colleges/coe/studentsservices).

Core Curriculum Requirements 43 hours

Core Courses 45 hours

ART 1311	Drawing I
ART 1333	Digital Media
ART 1334	Design I
ART 1335	Design II
ART 2303	Jewelry/Metalworking I
ART 2321	Painting I
ART 2341	Sculpture I
ART 2361	Printmaking I
ART 2371	Ceramics I
ART 3356	Arts of the West to 1400 A.D.
ART 3381	Perception and Expression in Art I
ART 3382	Perception and Expression in Art II
ART 3383	Creative and Critical Thinking
ART 4353	Arts of the West since 1400 A.D.
ART 4383	Art Curriculum

Designated Electives 12 hours

Any designated upper-division Art or Art History courses

Advanced Education Hours 21 hours

The professional education courses for all-level certification include the following: EDAL 3301, EDAL 3302, EDAL 3303, EDAL 4303, READ 4351, EDAL 4398, EDAL 4395 (art only), EDAL 4396 (music only), EDAL 4397 (special education only). Kinesiology majors are also required to take EDAK 3370 and EDAK 3380.

TOTAL 121 hours

**Bachelor of Fine Arts with a Major in Art****BFA Studio**

Core Curriculum Requirements 43 hours

Core Courses 45 hours

ART 1311	Drawing I
ART 1333	Digital Media
ART 1334	Design I
ART 1335	Design II
ART 2303	Jewelry/Metalworking I
ART 2321	Painting I
ART 2341	Sculpture I

- ART 2361 Printmaking I
- ART 2371 Ceramics I
- ART 3310 Drawing II
- ART 3311 Drawing III
- ART 3356 Arts of the West to 1400 A.D.
- ART 4339 Portfolio
- ART 4353 Arts of West since 1400 A.D.
- ART 4393 BFA Senior Exhibit

Designated Art History Electives 9 hours  
Choose any three upper-division Art History courses.

Art Studio Advanced Electives 18 hours  
Choose any six upper-division Art Studio classes from the following: ART 3302, ART 3303, ART 3321, ART 3332, ART 3334, ART 3341, ART 3361, ART 3362, ART 3371, ART 3372, ART 4303, ART 4311, ART 4321, ART4341, ART 4361, ART 4371

Advanced University-wide Electives 6 hours  
Choose any two advanced electives from any program (including Art).

Other Major Requirements

- A grade of C will be the minimum prerequisite grade for continuing studio courses in sequence.
- A grade of C or better in ART 4393, as determined by a studio panel, is required for the BFA degree.

TOTAL 121 hours

**BFA Studio, Specialization in Graphic Design**

Core Curriculum Requirements 43 hours

Core Courses 66 hours

- ART 1311 Drawing I
- ART 1332 Typography
- ART 1334 Design I
- ART 1335 Design II
- ART 2321 Painting I
- ART 2351 Ancient Art of the West
- ART 2352 Western Art 1000-1840 A.D.
- ART 2353 Modern Art since 1840
- ART 2361 Printmaking I
- ART 3330 Image and Illustration
- ART 3331 Visual Communication
- ART 3333 Design and Production
- ART 3334 Photography as an Art Form
- ART 3335 Communication Design I
- ART 3336 Communication Design II
- ART 3338 Ideas and Styles
- ART 4333 Graphic Design I
- ART 4334 Graphic Design II
- ART 4337 Digital Photography
- ART 4338 Interactive Design

- ART 4339 Portfolio
- ART 4393 BFA Senior Exhibit

Art History Electives 6 hours  
Select two advanced Art History courses, *excluding* ART 3356 and ART 4353.

Advanced Electives 6 hours  
Select six advanced hours from the following:  
ART 3337 Type Design  
ART 4336 Multimedia Production and Design  
ART 4388 Special Topics in Art  
ART 4391/4392, or advanced elective, University wide

Other Major Requirements

- A grade of C will be the minimum prerequisite grade for continuing studio courses in sequence.
- A grade of C or better in ART 4393, as determined by a studio panel, is required for the BFA degree.

TOTAL 121 hours

**Minor in Art**

Eighteen hours in art, of which nine hours must be advanced.

**General Art Minor 18 hours**

Required courses 6 hours  
ART 1311 Drawing I  
ART 1334 Design I

Choose one course from: 3 hours  
ART 2303 Jewelry/Metalworking I  
ART 2321 Painting I  
ART 2341 Sculpture I  
ART 2371 Ceramics I

Designated Electives 9 hours  
Nine hours of upper-division art history or studio.

**Art Minor in Two-Dimensional Art 18 hours**

Required courses 12 hours  
ART 1311 Drawing I  
ART 1334 Design I  
ART 2321 Painting I  
ART 3335 Communication Design I

Choose two courses from: 6 hours  
ART 3311, 3321, 4321, 3336, 4391

**Art Minor in Three-Dimensional Art 18 hours**

Required courses

ART 2332 Design II 3 hours

Choose two courses from: 6 hours

ART 2303 Jewelry/Metalworking I

ART 2341 Sculpture I

ART 2371 Ceramics I

Choose three courses from: 9 hours

ART 3302, 3303, 4303, 3341, 4341, 3371, 3372, 4371

### **Art Minor in Painting 21 hours**

Student must select ART 1301 under core curriculum requirements.

ART 1311 Drawing I

ART 1334 Design I

ART 2321 Painting I

ART 2322 Painting II

ART 3321 Painting III

ART 4353 Arts of the West since 1400 A.D.

### **Art Minor in Ceramics 21 hours**

ART 1311 Drawing I

ART 1334 Design I

ART 2371 Ceramics I

ART 3371 Ceramics II

ART 3372 Ceramics III

ART 4353 Arts of the West since 1400 A.D.

### **Art Minor in Jewelry/Metalworking 21 hours**

Student must select ART 1301 under core curriculum requirements.

ART 1311 Drawing I

ART 1334 Design I

ART 2303 Jewelry/Metalworking I

ART 3302 Jewelry/Metalworking II

ART 3303 Jewelry/Metalworking III

Any Advanced Art History course

### **Art Minor in Sculpture 21 hours**

Student must select ART 1301 under core curriculum requirements.

ART 1311 Drawing I

ART 1335 Design II

ART 2341 Sculpture I

ART 3341 Sculpture II

ART 4341 Sculpture III

ART 4353 Arts of the West since 1400 A.D.

### **Art Minor in Art History 21 hours**

Student must select ART 1301 under core curriculum requirements.

ART 2351 Ancient Art of the West

ART 2352 Art of the West 1000 - 1840 A.D.

ART 2353 Modern Art since 1840

Three Advanced Art History courses

### **Art Minor in Computer Graphics 18 hours**

ART 1311 Drawing I

ART 1332 Typography

ART 1334 Design I

ART 3335 Communication Design I

ART 3336 Communication Design II

ART 4337 Digital Photography

## **Course Descriptions**

A listing of courses offered by the Department of Art can be found on page 223.

# ▲ Communication ▲

**DR. TIMOTHY P. MOTTET,**

**DEPARTMENT CHAIR**

Communication Arts and Sciences Building, Room 165  
1201 W. University Drive  
Edinburg, TX 78539-2999  
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Fax: 956/381-2685  
E-mail: mottettp@utpa.edu  
www.utpa.edu/dept/comm

## FULL-TIME FACULTY

Agbese, Aje-Ori, Assistant Professor, Journalism  
Carren, David B., Associate Professor, Theatre/TV/Film  
Chang, Yanrong, Assistant Professor,  
Communication Studies  
Garcia Elizabeth, Lecturer, Communication Studies  
Grabowski, Thomas E., Associate Professor,  
Theatre/TV/Film  
Guerra, Petra, Assistant Professor, Journalism  
Hawks, Stephanie, Assistant Professor, Theatre/TV/Film  
Lemanski, Jennifer, Assistant Professor, Journalism  
Mann, Fred, Lecturer, Journalism  
McQuillen, Jeffrey, Associate Professor,  
Communication Studies  
Mikolasky, Trey, Lecturer, Communication Studies  
and Theatre/TV/Film  
Mottet, Timothy P., Professor, Communication Studies  
Pazdera, Donna, Lecturer, Journalism  
Raley, Jessica, Assistant Professor, Communication Studies  
Saavedra, Dora E., Associate Professor,  
Communication Studies  
Saavedra-Flores, Marisa, Lecturer, Communication Studies  
Selber, Gregory, Associate Professor, Journalism  
Selber, Kimberly, Associate Professor, Journalism  
Stanley, Jack R., Professor, Theatre/TV/Film  
Taylor Nick, Lecturer, Journalism  
Warren, Brian, Lecturer, Theatre/TV/Film  
Wiley, Eric, Associate Professor,  
Theatre/TV/Film

## EMERITUS PROFESOR

Monta, Marian F.

## ▲ GENERAL OVERVIEW

The primary aim of the Department of Communication is to advance the discovery and application of humanistic, behavioral and linguistic knowledge of human symbolic interaction. As such, communication is examined in its various forms, verbal/nonverbal; in its media occurrences —

conference, platform, theatre, print, radio, film, television; in its interpersonal/organizational environments; in its cultural contexts; and in its influence on the course and quality of public policy and societal change.

To help satisfy the fine arts requirement in humanities, the department offers Cinema Appreciation (COMM 1301) and Theatre Appreciation (COMM 2312) in the University core curriculum.

The department hosts a University chapter of the American Advertising Federation and a chapter of the Public Relations Student Society of America.

The theatre program is accredited by the National Association of Schools of Theatre and the Texas Educational Theatre Association.

The department offers the following degree programs:

- Bachelor of Arts in Communication
  - Option in Communication Studies
  - Option in Journalism
  - Option in Theatre/TV/Film
- Master of Arts in Communication
- Master of Arts in Theatre

*Career Potential:* Broad career areas in communication disciplines include international communication, sales and marketing, public relations and advertising, training and organizational development, mass communication — broadcast and print journalism, communication education/instruction, electronic educational materials, government-politics-religious-social services, educational theatre, community theatre, design and directing, acting, arts management, and TV direction and production.

## ▲ DEGREE REQUIREMENTS

### Bachelor of Arts in Communication

Students may choose from three options. The student will select a single option area from either the communication studies, journalism or theatre/TV/film program areas. Theatre majors must take a one-hour communication practicum course each fall and spring semester of enrollment. Within each concentration area are specialized career tracks. The student must work closely with a curriculum advisor in selecting an appropriate career track for the student's degree plan.

Career Tracks (non-certification) available under each option area are as follows:

#### Journalism option

- Advertising/Public Relations track
- Broadcast Journalism track
- Print Journalism track

#### Communication Studies option

- Interpersonal Communication track
- Organizational Communication track

Theatre/TV/Film option  
 Design track  
 Performance track  
 Television/ Film track

#### • Public School Teacher Certification

Certifications are available under each option area. Students should consult with the College of Education for the required education courses needed for certification.

#### Minor in Communication

Students can select an 18-hour general minor in communication, of which nine hours must be advanced coursework. They must take COMM 1302 or COMM 1303 and COMM 3316. Internship hours and practicum hours cannot be counted toward the minor. All courses must be completed with a grade of C or better.

#### Option in Communication Studies

The option in communication studies offers students the opportunity to specialize in one of three tracks — Interpersonal Communication, Organizational Communication, or certification.

Core Curriculum Requirements 43 hours

Complete the requirements shown in the University core curriculum requirements section of this catalog on pages 99-101.

Core Courses	21 Hours
Communication	
COMM 1302	Introduction to Communication
COMM 3314	Persuasive Communication
COMM 2315	Interpersonal Communication
COMM 3316	Intercultural Communication
COMM 3333	Communication Theory
COMM 3334	Small Group Communication
COMM 3350	Research in Communication

Communication Studies Electives	18 Hours Adv
Approved Electives or Minor	18 Hours/9 Adv
Other Electives	20 Hours/9 Adv

#### Teacher Certification (8-12)

Students seeking state certification in speech communication should consult the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements and information. Students will complete the following 37 hours:

COMM 1302	Introduction to Communication
COMM 1315	Survey of the Media
COMM 2315	Interpersonal Communication
COMM 3308	Creative Drama
COMM 3314	Persuasive Communication
COMM 3316	Intercultural Communication
COMM 3317	Communication for the Classroom Teacher
COMM 3330	Argumentation and Debate
COMM 3333	Communication Theory

COMM 3334	Small Group Communication
COMM 3335	Advanced Public Speaking
COMM 3350	Research in Communication
COMM 4103	Practicum

#### Teacher Certification Programs and Requirements

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://www.utpa.edu/colleges/coe/studentervices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

In addition students must complete 11 hours of approved electives (5 advanced) and 8 hours of free electives.

#### Minor in Communication Studies (non-certification)

A minor in communication studies (non-certification) requires a total of 18 semester hours of communication studies courses of which 9 semester hours must be advanced. All courses must be completed with a course grade of C or better. Students should consult with a departmental advisor for guidance with course selection.

#### Option in Journalism

The Department of Communication stresses a broad background in liberal arts and sciences for journalism students. The student spends about three-fourths of his or her time on general background courses. The remaining one-fourth involves the development of professional journalism techniques in relation to this general background knowledge.

To enroll in upper-level journalism courses, a student must have a University GPA of 2.25. Students who do not fulfill this requirement will be dropped from journalism courses. (This requirement is waived for transfer students during their first semester while establishing a University GPA.)

In addition to completing the 43 hours of the University core curriculum requirements, journalism students must complete COMM 1302, COMM 1303 or COMM 3313.

Core Curriculum Requirements 43 hrs

Core Courses 24 hours

Journalism students must take the following 24 hours of core courses:

COMM 1315	Survey of the Media
COMM 3303	Writing for the Mass Media
COMM 3305	Copy Editing
COMM 3327	Reporting I

COMM 3350	Research in Communication
COMM 4313	Media Law and Ethics
COMM 4327	Mass Communication and Society
COMM 4332	Media Publishing

Concentration Requirements

Advertising/Public Relations Track 18 hours

*C Minimum*

COMM 2304	Television Production
COMM 3304	Advertising
COMM 4321	Public Relations
COMM 4322	Public Relations Writing
COMM 4334	Mass Media
COMM 4335	Creative Strategies and Media Planning

or

Broadcast Journalism Track 24 Hours

*C Minimum*

COMM 2304	Television Production
COMM 2310	Introduction to Video Editing
COMM 3401	Broadcast News Writing
COMM 3403	Television News Production and Reporting
COMM 4312	Advanced Video and Film Editing
<i>Three hours from below may be substituted from another track:</i>	
COMM 4314	Advanced Television/Film Production
COMM 4417	Radio/TV and Television Advertising Production

or

Print Track 15 hours

*C Minimum*

COMM 3306	Feature Writing
COMM 3328	Writing for Publication
COMM 3329	Specialized Reporting
COMM 4326	Photojournalism

*Three hours advanced journalism elective*

**Other Requirements**

A portion of the journalism student's coursework must be chosen outside the journalism area. The outside concentration requirement may be elected as:

1. 18 hours in one academic department, or
2. 18 hours in an area of study to meet specific career goals or to satisfy a minor.

In either option, nine of the 18 hours must be at the 3000-level or above, and all 18 hours must be completed with a course grade of C or better. A journalism student must have a grade of at least C in each journalism course counted toward the degree.

Other Electives 8-17 Hours

Journalism with Teacher Certification (8-12) 36 Hours

Students seeking state certification in journalism will complete the following 36 hours:

COMM 1315	Survey of the Media
COMM 3303	Writing for the Mass Media
COMM 3304	Advertising
COMM 3305	Copy Editing
COMM 3306	Feature Writing
COMM 3327	Reporting
COMM 3328	Writing for Publication
COMM 3350	Research in Communication
COMM 4313	Media Law and Ethics
COMM 4326	Photojournalism
COMM 4327	Mass Communication and Society
COMM 4332	Media Publishing

**Teacher Certification Programs and Requirements**

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

Students must also complete 14 hours of approved electives and 3 hours of electives.

**Minor in Journalism**

Applicants must complete 18 hours of journalism courses, of which nine hours must be advanced coursework. All courses must be completed with a grade of C or better.

**Option in Theatre/TV/Film**

The option in theatre/TV/film supports three major educational objectives:

1. Preparation for entry into the work force as a theatre TV/film pre-professional.
2. Preparation for entry into a graduate degree program in theatre/TV/film.
3. Preparation as a theatre teacher.

Students pursuing the third objective should select one of the curriculum tracks that leads to certification.

**Curriculum Tracks in Theatre/TV/Film**

Core Curriculum Requirements 43 hours  
Complete the core curriculum requirements as shown on

pages 99-101 of this catalog EXCEPT as shown below:

*It is recommended that students select ENG 2313/ COMM 2312 as one of the courses.*

Core Courses 18 hours

COMM 1305	Acting I
COMM 2304	Television Production
COMM 4301	Directing I
COMM 4302	Directing II
COMM 4315	History of Theatre I
COMM 4316	History of Theatre II

Technical Electives 28-33 hours  
See individual requirements below.

Other Electives 12-17 hours

TOTAL 120 hours

### Design Track

Technical Electives 33 hours

COMM 1311	Technical Production I
COMM 1312	Technical Production II
COMM 2320	Costume Technology
COMM 2321	Drawing and Rendering for the Theatre
COMM 3309	Scene Design
COMM 3312	Costume Design
COMM 3310	Lighting for the Stage, Film and TV
COMM 3311	Contemporary Drama
	<b>or</b>
COMM 3323	World Drama
COMM 3324	Cinematography/ Videography
COMM 4101	Practicum-Theatre-TV-Film (must be taken three times)
COMM 4314	Advanced TV/Film Production

Other Electives 26 hours

The following are recommended:

COMM 2319	Makeup
	<b>or</b>
COMM 4317	Children Theatre
COMM 4624	Professional Internship
	<b>or</b>
COMM 4615	Summer Theatre Workshop

### Performance Track

Technical Electives 30 hours

COMM 2101	Practicum-Theatre TV Film (must be taken three times)
COMM 2306	Acting II
COMM 2319	Makeup
COMM 3302	Speech for Stage and Screen
COMM 3311	Contemporary Drama
COMM 3323	World Drama
COMM 3341	Acting III

	<b>or</b>
COMM 3342	Acting IV
COMM 4101	Practicum-Theatre TV Film (must be taken three times)
COMM 4314	Advanced TV/Film Production
COMM 4318	Theory and Styles of Acting
	<b>or</b>
COMM 4319	Problems in Acting

Other Electives 29 hours

The following are recommended:

COMM 3324	Cinematography/Videography
COMM 4304	Scriptwriting for Stage and Screen
COMM 4615	Summer Theatre Workshop

	<b>or</b>
COMM 4624	Professional Internship-Cooperative Education- COMM

### Television, Film Track

Technical Electives 36 hours

COMM 1312	Technical Production II
COMM 2310	Introduction Video Editing
COMM 4101	Practicum-Theatre TV Film (must be taken three times)
COMM 3302	Speech for Stage and Screen
COMM 3309	Scene Design
COMM 3310	Lighting for the Stage, Film and TV
COMM 3324	Cinematography/Videography
COMM 3325	Motion Picture History and Significance
COMM 4624	Professional Internship-Cooperative Education-COMM
	<b>or</b>
COMM 4616	Summer Television Workshop
COMM 4312	Adv Video and Film Editing
COMM 4314	Advanced TV/Film Production

Other Electives 23 hours

The following is recommended:

COMM 4304	Scriptwriting for Stage and Screen
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### Theatre EC-12 Teacher Certification Program

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following all-level certification degree plans (grades EC-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for all-level certification include the following: EDAL 3301, EDAL 3302, EDAL 3303, EDAL 4303, READ 4351, EDAL 4398,

## College of Arts & Humanities

EDAL 4395 (art only), EDAL 4396 (music only), EDAL 4397 (special education only). Kinesiology majors are also required to take EDAK 3370 and EDAK 3380.

<b>Core Courses</b>		<b>18 hours</b>
COMM 1305	Acting I	
COMM 1311	Technical Production I	
COMM 4301	Directing I	
COMM 4302	Directing II	
COMM 4315	History of the Theatre I	
COMM 4316	History of the Theatre II	
<b>Technical Electives</b>		<b>19 hours</b>
COMM 2101	Practicum	
COMM 2320	Costume Technology	
COMM 3309	Scene Design	
	<b>or</b>	
COMM 3312	Costume Design	
COMM 3311	Contemporary Drama	
	<b>or</b>	
COMM 3323	World Drama	
COMM 4101	Practicum-Theatre/TV/Film (must be taken three times)	
COMM 4318	Theory and Styles of Acting	
COMM	Advanced Theatre Elective	
<b>Electives</b>		<b>19 hours</b>
The following are recommended:		
COMM 2306	Acting II	
	<b>or</b>	
COMM 3341	Acting III	
	<b>or</b>	
COMM 3342	Acting IV	
<b>TOTAL</b>		<b>120 hours</b>

### Minor in Theatre/TV/Film

Applicants must complete the 18 core hours of the theatre/TV/film program.

### Minor in Leadership Studies

The student, with advisement from the leadership studies academic coordinator, will complete 18 hours, of which nine must be advanced coursework, from the following:

<b>A. Required Courses</b>		<b>12 hours</b>
LEAD 1310	Introduction to Leadership Theory	
LEAD 2310	Ethics in Leadership	
LEAD 3310	Community Leadership	
Students will choose one of the following to complete their required, advanced hours:		
LEAD 4310	Survey of Texas and U.S. Leadership Models and Practices	
LEAD 4320	Survey of World Leadership Models and Practices	
<b>B. Elective Courses</b>		<b>6 hours</b>
Choose no more than one from any given area.		

Students cannot choose more than one lower-division course in order to meet the minimum requirement of nine advanced hours in the minor.

### Anthropology

ANTH 3333	United States and Other World Cultures
ANTH 3380	Social Anthropology

### Communication

COMM 2315	Interpersonal Communication
COMM 3314	Persuasive Communication
COMM 3316	Intercultural Communication
COMM 3330	Argumentation and Debate
COMM 3332	Organizational Communication
COMM 3334	Small Group Communication
COMM 4321	Public Relations

### Management

MANA 3335	Communication Policy and Strategy
MANA 4361	Organizational Behavior
MANA 4363	Production Management

### Philosophy

PHIL 1320	Introduction to Logic
PHIL 2350	Social Philosophy

### Political Science

POLS 3333	Classical Political Theory
POLS 3334	Modern Political Theory
POLS 4360	American Executive Process

### Psychology

PSY 3324	Social Psychology
PSY 3340	Stress Management

### Sociology

SOCI 4380	Social Protest and Social Movements
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### Minor in Film Studies

The minor in Film studies requires 18 hours in the following:

<b>Core Requirements:</b>		<b>12 hours</b>
ENGL 3315	Introduction to Film Studies	
COMM 3325	History and Significance of the Motion Picture	
ENGL/ FREN/ SPAN 4313	Topics in International Film	
ENGL 4317	Film Theory	

### 6 Hours from the following electives:

ENGL 3316	Literature and Film Adaption
ENGL/	



FREN/ SPAN/ COMM 4390	Advanced Topics in Film Studies
ENGL/ FREN/ SPAN 4313	Topics in International Film
COMM 3326	American Film Genre
PHIL 3331	Philosophy of Film
POLS 3301	Politics in Film

### Minor in Hispanic Media Studies

The minor in Hispanic Media Studies requires 18 hours in the following:

COMM 3336	Media and Hispanics
COMM 3337	Global Communication
SPAN 3343	Spanish Language Media Studies
SPAN 3334	Business Spanish
<b>or</b>	
SPAN 4348	Sociolinguistics and Latino Health
<b>or</b>	
SPAN 4335	Spanish English Translation
COMM 4624	Internship-Communication
<b>or</b>	

Cultural Studies: Students can choose from the following list of courses: 6 hours of

ANTH 2323	Mexican-American Culture
ANTH 4348	Peoples and Culture of Mexico
ENG 4316	Mexican-American Literature
HIST 3373	Mexican-American Heritage
HIST 4353	History of Mexican Culture
HIST 4354	Contemporary Mexico
POLS 3363	American Hispanic Politics
POLS 3364	US-Mexico Border Relations
POLS 3365	Politics of Immigration
PSY 4328	Psychological Issues in the Mexican-American Community
SOC 4323	The Mexican-American People
SPAN 3311	Masterpieces of Spanish American Lit II
SPAN 3316	The Mexican Novel
SPAN 4329	Mexico's Contemporary Literature
SPAN 4307	Spanish American Novel
SPAN 4325	Caribbean Literature
SPAN 4340	Spanish American Essay
<b>or</b>	

Language Studies: Students can choose from the following list of courses: 6 Hours

SPAN 3303	Advanced Spanish Composition
SPAN 3304	Advanced Spanish Composition II
SPAN 3306	Spanish Phonetics and Phonology
SPAN 3319	Intro to Hispanic Linguistics

<b>or</b>		
ENG 3319	Descriptive Linguistics	
ENG 3321	Language and Culture	
SPAN 3330	Advanced Spanish Grammar	
SPAN 4316	Problems related to language	
<b>or</b>		
ENG 4326	Language Acquisition	
SPAN 4331	Problems in Grammar, Dialects & Performance	
<b>or</b>		
ENG 4331	Border Language	
SPAN 4391	Topics in Hispanic Linguistic	

All upper division Spanish Courses require SPAN 1303, 1304, 2307, 2308 or approval of instructor.

### Course Descriptions

A listing of courses offered by the Department of Communication can be found on page 245.

## ▲ English ▲

### DR. PAMELA ANDERSON-MEJIAS, DEPARTMENT CHAIR

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#### FULL-TIME FACULTY

Affeldt, Robert, Assistant Professor  
Anderson-Mejias, Pamela, Professor  
Anshen, David, Assistant Professor  
Becker-Chambles, Amy, Lecturer  
Belau, Linda, Associate Professor  
Braithwaite, Jean, Assistant Professor  
Brown, Danika, Associate Professor  
Broz, William, Assistant Professor  
Broz, Virginia, Lecturer  
Cararas, Sandra, Emeritus Professor  
Chalaire, Mary, Lecturer  
Cameron, Ed, Associate Professor  
Charlton, Colin, Assistant Professor  
Charlton, Jonikka, Assistant Professor  
Christensen, Matt, Assistant Professor

Cole, Deborah, Assistant Professor  
 Dambreville, Laurence, Lecturer  
 Daniel, Clay L., Associate Professor  
 De Kock, Maria, Lecturer  
 Eom, Min-hee, Assistant Professor  
 Escamilla, Marianita, Lecturer  
 Evans, James, Emeritus Professor  
 Flores, Shoney, Lecturer  
 Francis, Theron, Lecturer  
 Garza, Teresa, Lecturer  
 Goren, Allan, Lecturer  
 Hamilton, Lee, Professor  
 Haraway, Claude, Lecturer  
 Haule, James M., Professor  
 Heckler, Edward, Associate Professor  
 Johnson, Robert, Professor  
 Keller, Christopher, Associate Professor  
 Lang, Yong, Associate Professor  
 LaPrade, Douglas E., Professor  
 Lee, Kyoung, Lecturer  
 Lopez, Carlos, Lecturer  
 McCracken I. Moriah, Assistant Professor  
 McMahan, Marci, Assistant Professor  
 Meadows, Bryan, Assistant Professor  
 Mery, Adelle, Lecturer  
 Miles, Caroline S., Assistant Professor  
 Mitchell, Rebecca, Assistant Professor  
 Newman, Beatrice, Professor  
 Newman, Donald, Professor  
 Noe, Mark, Associate Professor  
 Nuss, Melynda, Assistant Professor  
 Pérez, Emmy, Assistant Professor  
 Phillips, Sharia, Lecturer  
 Platt, Kamala, Lecturer  
 Reed, Michael D., Professor  
 Schneider, Gary, Associate Professor  
 Schneider, Steven P., Professor  
 Skinner, José, Associate Professor  
 Sparrow, Kathleen, Lecturer  
 Taylor, Karen, Lecturer  
 Thompson, Frieda, Lecturer  
 Thomson, Shawn, Assistant Professor  
 Vielma, Barbara, Lecturer  
 Villarreal, Evert, Lecturer  
 Von Ende, Frederick, Professor  
 Williamson, Eric, Professor

## ▲ General Overview

The Department of English offers undergraduate major and minor programs with specializations in literature, writing and discourse studies, creative writing, linguistics and language, applied linguistics, cultural studies, border studies and English as a second language. Teacher certification plans are also available at both the high school (8-12) and middle school (4-8) levels.

In addition, the department offers graduate programs leading to the Master of Arts in English (with tracks in literature and cultural studies and rhetoric, composition and literacy studies), the Master of Arts in English as a Second Language, the Master of Fine Arts in creative writing and the Master of Arts in interdisciplinary studies with concentrations in English and writing. More information is available in the Graduate Catalog.

Major and minor programs in English offer students an opportunity to discover more about the world in which they live, to learn to appreciate the artistic works of fellow human beings and to develop literary and language aptitudes of their own.

To students who view education primarily as career training, English programs provide excellent preparation for any profession requiring a high degree of skill and comprehension in oral and written communication.

## ▲ Major in English

The Bachelor of Arts degree with a major in English requires 39 semester hours of English, of which 36 hours must be advanced. Three of those hours will be satisfied by the core curriculum requirement that all students take an English 23XX course of their choosing.

All students must complete nine hours of English credits — including 1301, 1302 and one 2300-level course from Area A — as prerequisites for advanced (3000- and 4000-level) courses. Additional prerequisites are listed in the Course Descriptions section of the catalog.

Students may consider the offerings below in order to develop an individual degree plan in consultation with an advisor from the English department. (View Course Descriptions for more information about individual courses.)

### Offerings in Literature:

ENG 2300, 2303, 2305, 2307, 2308 (when special topic is literary), 2313, 2387, 2388, 3301, 3304, 3305, 3306, 3307, 3309, 3310, 3312, 3313, 3315, 3316, 3317, 3320 (when special topic is literary), 3322, 3324, 3325, 3331, 3332, 3350, 3398, 3399, 4301, 4306, 4309, 4310, 4312, 4313, 4316, 4317, 4318, 4319, and 4390.

### Offerings in Literary Theory:

ENG 4305 and 4306.

### Offerings in Writing and Discourse Studies:

ENG 1301, 1302, 1310, 1320, 1387, 1388, 1406, 2308 (when topic is writing), 2309, 3320 (when topic is writing), 3326, 3338, 4307, 4322, 4323, 4324, 4330 and 4325.

### Offerings in Creative Writing:

ENG 3336, 3337, 4336, 4337 and 4340.

### Offerings in Linguistics and Language:

ENG 3300, 3319, 3320 (when topic is linguistic), 3321, 3330, 4302, 4308, 4314, 4326, 4330 and 4331.

**Offerings in Applied Linguistics:**

ENG 3321, 4326 and 4328.

**Offerings in Cultural Studies:**

ENG 4304, 4306 and 4307.

**Offerings in Border Studies:**

ENG 4319, 4320 and 4331.

**Offerings in English as a Second Language:**

ENG 3319\*, 3321\*, 4326, 4328\*, 4329, 4330 and 4331.

\*Denotes courses that (in addition to EDBE 3324) are required by the state of Texas for ESL endorsement. Students getting this endorsement must have a 2.25 GPA in the required four courses.

**▲ Degree Requirements**

Core Curriculum Requirements 43 hours  
Complete the requirements shown in the University core curriculum requirements section of this catalog on pages 99-101.

Required Courses 39 hours  
Area A: Sophomore Literature (Survey Courses) — three credits to be chosen from the following: 2300, 2303, 2305, 2307, 2308, 2313, 2387, 2388

Area B: Literature Survey — six credits to be chosen from the following: 3312, 3313, 3331, 3332

Area C: Period/Genre/Theme/Single Author Courses — three credits to be chosen from the following: 3301, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3314, 3315, 3316, 3317, 3322, 3324, 3325, 3398, 3399, 4301, 4309, 4310, 4312, 4317, 4319, 4390

Area D: World/Multicultural Literature — three credits to be chosen from the following: 3321, 3323, 3342, 3343, 3350, 4313, 4316

Area E: Writing — six credits to be chosen from the following: 3326, 3333, 3334, 3336, 3337, 3338, 4325

Area F: English Language/Linguistics — three credits to be chosen from the following: 3300, 3319, 3330

Area G: Literary or Rhetorical Theory Survey — three (3) credits to be chosen from the following: 4305, 4324

Area H: Electives — 12 credits to be chosen from 3000- and 4000-level courses (3320 may be repeated for elective credit when the topic varies).

In addition to the core curriculum and English major requirements, students will be required to choose an

academic minor (usually 18 hours), and take a number of electives to satisfy University and college degree requirements. Students must take at least 121 hours to graduate. For specifics about all these requirements, please see an English advisor.

**Areas of Emphasis in Major**

Students may also opt to take an additional nine hours to get an “emphasis” in one of the following areas: literature, writing and discourse studies, creative writing, linguistics and language, applied linguistics, cultural studies and border studies.

**Emphasis Requirements**

Literature Emphasis  
English 3312, 3313, 3331, 3332 and 3350  
Writing and Discourse Studies  
English 3326, 4323 and 4324  
Creative Writing  
English 3337, 4337, 4340 and 4436  
Linguistics and Language  
English 3330, 4302 and 4308  
Applied Linguistics  
English 3321, 4326 and 4328  
Cultural Studies  
English 4304, 4306 and 4307  
Border Studies  
English 4319, 4320 and 4331

**Bachelor of Arts in English: Certification in 4-8 English Language Arts/Reading**

Teacher Certification Programs and Requirements  
Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following middle school certification degree plans (grades 4-8) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/student-services>.

The professional education courses for middle school (4-8) certification include the following: EDMS 3353, EDMS 3354, READ 3325, EDMS 3305, EDMS 3355, READ 3326, EDMS 4398 and EDMS 4399.

A. Core Curriculum Requirements 43hours

B. English Major 24 hours  
in addition to Core

ENG 3325 Child/Adolescent Literature  
ENG 3319 Introduction to Descriptive Linguistics  
ENG 3312 Survey of American Literature  
**or**  
ENG 3313 Survey of American Literature  
ENG 3331 Survey of English Literature

or

- ENG 3332 Survey of English Literature
- ENG 3321 Language and Culture
- ENG 4318 Teaching Secondary School Literature
- ENG 4325 Composition Techniques
- ENG 4328 Introduction to ESL

C. Reading Minor 18 hours

- READ 3310 Narrative and Expository Analysis-Elementary/Secondary
- READ 3323 Reading Acquisition
- READ 3325 Cognitive Development and Reading Comprehension
- READ 3326 Reading Across the Curriculum Content Areas
- READ 3327 Assessment/Diagnosis of Special Needs Students
- EDBE 3316 The Development of Biliteracy

D. Professional Development 18 hours

- EDMS 3353 Young Adolescent Development and Learning
- EDMS 3354 Middle School Curriculum Development and Assessment
- EDMS 3305 Instructional Methods for English Language Learners and Learners with Exceptionalities in Middle Schools
- EDMS 3355 Instructional Technology Methods and Classroom Management for Middle School Classrooms
- EDMS 4398 Integrated Internship II: Middle School
- EDMS 4399 Supervised Internship II: Middle School

E. Miscellaneous Requirements 18 hours

- PSY 4319 Cognitive Processes
- or
- SOCI 4360 Sociology of Education
  - COMM 3308 Creative Drama
  - COMM 1313 Fundamentals of Speech Communication
- or
- COMM3317 Speech for the Classroom Teacher
  - EMAT 2306 Foundations of Mathematics I
  - EMAT 2307 Foundations of Mathematics II
  - SCIENCE Any additional 6 hours

**Bachelor of Arts in English: Certification in 8-12 English Language Arts/Reading**

**Teacher Certification Programs and Requirements**

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher

Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

A. Core Curriculum Requirements 43 hours

B. English Major 30 hours

in addition to Core Courses

Any three of the following four surveys:

- ENG 3312 Survey of American Literature and/or
  - ENG 3313 Survey of American Literature
  - ENG 3331 Survey of English Literature and/or
  - ENG 3332 Survey of English Literature
  - ENG 3319 Introduction to Descriptive Linguistics
  - ENG 3336 Creative Writing I
- or
- ENG 3337 Creative Non-Fiction
- or
- ENG 4336 Advanced Creative Writing
  - ENG 4318 Teaching Secondary School Literature
  - ENG 4325 Composition Techniques
  - ENG 3325 Children/Adolescent Literature
  - ENG 3321 Language and Culture
  - ENG 33xx/43xx Any Advanced English Course

C. Choice of Minor 18 hours

Can include core courses.

D. Professional Development 18 hours

- EDHS 4301 Foundations of Education
- EDHS 4302 Instructional Planning and Assessment
- EDHS 4303 Instructional Strategies and Classroom Management
- EDHS 3305 Instructional Methods for English Learners and Learners with Exceptionalities in High School
- EDHS 4398 Integrated Internship II: 8-12
- EDHS 4399 Supervised Internship II: High School 8-12

E. Miscellaneous Requirements 18 hours

- PSY 4319 Cognitive Processes
- or
- SOCI 4360 Sociology of Education
  - COMM3317 Speech for the Classroom Teacher
  - READ 3325 Cognitive Development and Reading Comprehension
  - READ 3327 Assessment/Diagnosis of Special Needs Students
  - READ 4351 Developmental Reading in Secondary Schools

## Bachelor of Arts in English: Certification in 8-12 English Language Arts/Reading with ESL Endorsement

### Teacher Certification Programs and Requirements

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://www.utpa.edu/colleges/coe/studentervices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

- |  |          |
|--|----------|
| A. Core Curriculum Requirements  | 43 hours |
| B. English Major<br>in addition to core  | 27 hours |
| Any three of the following surveys:  |          |
| ENG 3312 Survey of American Literature<br><b>and/or</b>  |          |
| ENG 3313 Survey of American Literature<br><b>and/or</b>  |          |
| ENG 3331 Survey of English Literature<br><b>and/or</b>   |          |
| ENG 3332 Survey of English Literature  |          |
| ENG 3319 Introduction to Descriptive Linguistics   |          |
| ENG 3321 Language and Culture  |          |
| ENG 4318 Teaching Secondary School Literature  |          |
| ENG 4325 Composition Techniques  |          |
| ENG 4328 Introduction to English<br>as a Second Language   |          |
| ENG33xx/43xx Any Advanced ESL Course   |          |
| C. Choice of Minor<br>(foreign language recommended)   | 18 hours |
| D. Professional Development Hours  | 18 hours |
| EDHS 4301 Foundations of Education   |          |
| EDHS 4302 Instructional Planning<br>and Assessment   |          |
| EDHS 4303 Instructional Strategies and<br>Classroom Management   |          |
| EDHS 3305 Instructional Methods for English<br>Learners and Learners with<br>Exceptionalities in High School |          |
| EDHS 4398 Integrated Internship II: 8-12   |          |
| EDHS 4399 Supervised Internship II:<br>High School 8-12  |          |
| E. Miscellaneous Requirements  | 15 hours |

PSY	4319	Cognitive Processes <b>or</b>
SOCI	4360	Sociology of Education
COMM	3317	Speech for the Classroom Teacher
READ	3325	Cognitive Development and Reading Comprehension
READ	3327	Assessment/Diagnosis of Special Needs Students
READ	4351	Developmental Reading in Secondary Schools

### GPA Requirement for Certification Students

Students seeking certification or an ESL endorsement must have at least a 2.5 GPA in the content area courses.

### Additional Information: Requirements for taking the TExES Exam

To receive clearance, English Language Arts/Reading Certification candidates must arrange a conference with a Department of English TExES advisor to review course completions, GPA requirements and review session attendance. TExES candidates will take the Representative Form of the ELA/Reading 4-8 or ELA/Reading 8-12 exam. To take the Representative Form, candidates should be enrolled in or have completed English 4318 or English 4325. Candidates should check the Department of English home page for links to updates on TExES information.

### Minor in English

Eighteen hours of English, of which six must be advanced.

### Course Descriptions

A listing of courses offered by the Department of English can be found on page 276.

## ▲ History and Philosophy ▲

### DR. MICHAEL FAUBION, DEPARTMENT CHAIR

Communication Arts and Sciences Building, Room 342  
1201 W. University Drive  
Edinburg, TX 78539-2999  
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www.utpa.edu/dept/hist-phil

### ▲ General Overview

The Department of History and Philosophy offers majors in history, Mexican American studies, social studies composite and philosophy, as well as minors in history, philosophy, interdisciplinary women's studies and religious studies.

In addition, it offers courses for students seeking a second teaching field for teacher certification.

On the graduate level, the department offers a Master of Arts in history and a Master of Arts in interdisciplinary studies with a concentration in history. More information is available in the Graduate Catalog.

## ▲ History ▲

### FULL-TIME FACULTY

Adair, Penelope A., Associate Professor  
Anderson, Erik, Lecturer  
Balci, Tamer, Assistant Professor  
Birk, Megan, Assistant Professor  
Campney, Brent, Assistant Professor  
Carlson, David, Assistant Professor  
English, Linda, Assistant Professor  
Faubion, Michael L., Associate Professor  
Finck, James, Lecturer  
Garza, Juanita, Lecturer  
Grant, Ken, Lecturer  
Hay, Amy, Assistant Professor  
Hernandez, Sonia, Assistant Professor  
Hoppens, Robert, Assistant Professor  
Jaworski, Michael, Lecturer  
Knight, Dan, Assistant Professor  
Levinson, Irving, Assistant Professor  
Miller, Christopher L., Associate Professor  
Morrison, Bryant, Lecturer  
Newman Trevino, Jennifer, Lecturer  
Pastrano, Jose, Assistant Professor

Saka, Paul, Assistant Professor  
Skowronek, Russell, Professor  
Waite, Charles, Assistant Professor  
Wallace, Ned, Lecturer  
Weaver, Michael K., Associate Professor  
Wirts, Kristine, Associate Professor  
Zarate, Arnold, Lecturer

### EMERITUS PROFESSORS

Miller, Hubert

### ▲ General Overview: History

Students majoring or minoring in history may become teachers or seek employment in business or government. History is an excellent background for those who wish to go to law school or enter journalism. The Department of History and Philosophy, in conjunction with the Departments of Modern Languages and Literature, Sociology and Social Work, also offers a Bachelor of Arts degree in Latin American Studies and Mexican-American Studies.

Beginning history majors are urged to take Civilization Through the Centuries, American Heritage and Historiography and Methodology early in their academic careers. Well-prepared students are encouraged to establish credit in some of these beginning courses by passing advanced standing examinations.

The department also welcomes non-history majors who may wish to take courses in Mexican-American heritage, Russian history or a wide assortment of courses in Latin American, American and European history.

### ▲ Degree Requirements

#### Major in History

Core Curriculum Requirements 43 hours  
Complete the core curriculum requirements as shown on pages 99-101 of this catalog.

Core Courses	15 hours
HIST 2313	American Heritage I*
HIST 2314	American Heritage II*
HIST 2331	Civilization Through the Centuries
HIST 2332	Civilization Through the Centuries
HIST 3332	Historiography and Methods

\*Honors HIST 2387 and HIST 2388 may be substituted for HIST 2313 and HIST 2314.

Designated Electives	21 hours
6 advanced hours from American history.	
6 advanced hours from European history.	
6 advanced hours from Latin American history.	
3 advanced hours of history from any area	

Forty-six hours free electives/minor.

TOTAL 124 hours

### Minor in History

Core Courses 9 hours

HIST	2313	American Heritage I*
HIST	2314	American Heritage II*
HIST	2331	Civilization Through the Centuries
	or	
HIST	2332	Civilization Through the Centuries

\*Honors HIST 2387 and HIST 2388 may be substituted for HIST 2313 and HIST 2314.

### Other Requirements

Minors must take nine additional hours, including six advanced hours.

### Major in Social Studies Composite

The following criteria are required of all history majors and minors seeking teacher certification:

- Students must have a 3.0 cumulative GPA in their history or social studies classes.
- Students must have a C or better in each of their history courses.

Students will take the Representative Form for the TExES once after completing HIST 2313 and 2314 and again after completing HIST 2331, 2332 and 3332. Students will take the benchmark the final time while taking HIST 3303. HIST 3303 will be the last history class the student takes.

The social studies composite major is a broad-field major requiring 48 hours in social studies. Students with a social studies composite major do not require a minor. This curriculum is recommended for students seeking social studies certification for grades 8-12.

### Teacher Certification Programs and Requirements

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://utpa.edu/colleges/coe/studentsservices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

Core Curriculum Requirements 48 hours

Complete the core curriculum requirements as shown on pages 99-101 of this catalog.

### Social Studies Courses

Students take 30 hours of required social studies classes and 33 hours of designated social studies electives.

### Required Courses

ANTH	3333	United States and Other World Cultures
ECO	2301	Principles of Economics I
HIST	2313	American Heritage I
HIST	2314	American Heritage II
HIST	2331	World Civilizations I
HIST	2332	World Civilizations II
HIST	3303	Geography and Environment
HIST	3332	Historiography and Methods
POLS	2313	U.S. and Texas Government and Politics
POLS	2314	U.S. and Texas Government and Politics

### Designated Electives

Select 6 hours from the following:

HIST	3313	American Colonial Era to 1783
HIST	3324	Formative Period of the American Nation, 1783-1840
HIST	3350	American Military Experience
HIST	3367	US as a World Power
HIST	3373	Mexican-American Heritage
HIST	4322	Spanish Southwest to 1821
HIST	4343	Era of Sectional Conflict, 1850-1877
HIST	4363	U.S.-Latin American Relations
HIST	4397*	Special Topics in U.S. History

Select 6 hours from the following:

HIST	3350	American Military Experience
HIST	3367	US as a World Power
HIST	3373	Mexican-American Heritage
HIST	4303	Emergence of Modern America, 1877-1917
HIST	4313	Twentieth Century America, 1917 to Present
HIST	4363	U.S.-Latin American Relations
HIST	4397*	Special Topics in U.S. History

Select 6 hours from the following:

HIST	3335	History of Spain
HIST	3341	History of England I to 1686
HIST	3342	History of England II after 1686
HIST	4326	Ancient Greek History
HIST	4327	Ancient Roman History
HIST	4328	Medieval History
HIST	4370	Renaissance and the Reformation, 1300-1650
HIST	4371	Russia since 1905
HIST	4375	Absolutism and Enlightenment in Europe, 1650-1789
HIST	4376	Revolutionary Europe, 1780-1850

HIST	4383	Europe's Age of Imperialism, 1850-1919
HIST	4393	Contemporary Europe, 1919 to Present
HIST	4396*	Special Topics in European History

Select 3 hours from the following:

HIST	3333	Colonial Mexico, Central and South America
HIST	4322	The Spanish Southwest to 1821
HIST	4352	Brazil After Independence
HIST	4345	Mexico's First Century as an Independent Republic
HIST	4353	History of Mexican Culture
HIST	4354	Contemporary Mexico
HIST	4355	Spanish South America Since Independence
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
HIST	4398*	Special Topics in Latin American History

Select 3 hours from the following:

HIST	3302	World History Studies
HIST	3333	Colonial Mexico, Central and South America
HIST	3380	Early Middle East History
HIST	4322	The Spanish Southwest to 1821
HIST	4352	Brazil After Independence
HIST	4345	Mexico's First Century as an Independent Republic
HIST	4353	History of Mexican Culture
HIST	4354	Contemporary Mexico
HIST	4355	Spanish South America Since Independence
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
HIST	4380	Mod Middle East History
HIST	4398*	Special Topics in Latin American History

Select 6 hours from the following:

POLS	3316	American Public Policy
POLS	4320**	American Constitutional Law: Federalism
POLS	4321**	American Constitutional Law: Liberties
POLS	4332	American Political Theory
POLS	4360	American Executive Process
POLS	4363	American Legislative Process
POLS	4367**	American Judicial Process
POLS	4373	American Political Parties and Politics

Select 3 hours from the following:

ECON	3351	Macroeconomic Theory
ECON	3353	International Trade
ECON	3355	Economic Development
ECON	3357	Economics of Poverty
ECON	3358	Labor History
ECON	4359	History of Economic Thought

FINA	3381	Money and Banking
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### High School (8-12) School Certification

Semester I

EDHS	4301	Foundations of Education
EDHS	4302	Instructional Planning and Assessment
READ	4351	Developmental Reading in Secondary Schools

Semester II

EDHS	3305	Instructional Methods for English Learners and Learners with Exceptionalities in High School
EDHS	4303	Instructional Strategies and Classroom Management for High School

Internship/Semester III

EDHS	4398	Integrated Internship II High School
EDHS	4399	Supervised Internship II: High School

Total Hours for students seeking certification 132 hours

\*Requires departmental approval.

\*\*Students may choose only one of these options.

Students may not apply the same course in two elective areas.

### Course Descriptions

A listing of history courses offered by the Department of History and Philosophy can be found on page 287.

### Interdisciplinary Minor in Women's Studies

A minor in women's studies requires 18 semester hours of coursework, six that are required and twelve selected from women's studies cross-listed courses. Twelve semester hours must be at the advanced level.

Required			6 hours
WMST	2301	Women's Studies Theory, Method and Practice	
WMST	4301	Capstone Seminar in Women's Studies	

Cross-Listed Courses 12 hours

The student must take twelve hours or four courses altogether. Selected courses must be from three disciplines that reside in at least two departments. The courses must be selected from the following approved menu of advanced courses cross-listed between the academic department and



the women's studies interdisciplinary program.

### Music

WMST	3307	Women Composers
		<b>or</b>
MUS	3307	Women Composers

### Modern Languages and Literature

WMST	3308	Female Identity in Women's Literature of the South and Southwest
		<b>or</b>
WMST	3310	Latin American Women's Studies Special Topics
		<b>or</b>
LAMS	3377	Latin American Women in the Modern Era
		<b>or</b>
WMST	3377	Latin American Women in the Modern Era
LAMS	3378	Women in Colonial Latin America
		<b>or</b>
WMST	3378	Women in Colonial Latin America
LAMS	3379	Chicana and Latin American Feminisms
		<b>or</b>
WMST	3379	Chicana and Latin American Feminisms
		<b>or</b>
ENG	3344	Latin American Women's Literature

### Nursing

WMST	3309	Special Topics in Women's Health Issues
		<b>or</b>
NURS	3309	Special Topics in Women's Health Issues English
WMST	3341	Women's Rhetoric and Language
		<b>or</b>
ENG	3341	Women's Rhetoric and Language
WMST	3342	Ethnic Women Writers
		<b>or</b>
ENG	3342	Ethnic Women Writers
WMST	3343	Women's Literature
		<b>or</b>
ENG	3343	Women's Literature
		<b>or</b>
WMST	3344	Gender, Crime and Criminal Justice
		<b>or</b>
CRIJ	3344	Gender, Crime and Criminal Justice

### History

WMST	3375	Women in History
		<b>or</b>
HIST	3375	Women in History
		<b>or</b>
HIST	3377	Latin American Women in the

		Modern Era
		<b>or</b>
WMST	3377	Latin American Women in the Modern Era
HIST	3378	Women in Colonial Latin America
		<b>or</b>
WMST	3378	Women in Colonia Latin America Philosophy
WMST	3376	Feminist Theories
		<b>or</b>
PHIL	3376	Feminist Theories
PHIL	3379	Chicana and Latin American Feminisms
		<b>or</b>
WMST	3379	Chicana and Latin American Feminisms

### Political Science

WMST	3380	Gender in U.S. Politics
		<b>or</b>
POLS	3380	Gender in U.S. Politics
WMST	3381	Women and Global Political Movements
		<b>or</b>
POLS	3381	Women and Global Political Movements

### Anthropology

WMST	4309	Anthropology of Women
		<b>or</b>
ANTH	4309	Anthropology of Women Psychology
WMST	3338	Gender Development in International Context
		<b>or</b>
PSYC	3338	Gender Development in International Context

### Sociology

WMST	4310	Gender in a Global Perspective
		<b>or</b>
SOCI	4310	Gender in a Global Perspective
WMST	4330	Gender Research in Social Psychology
		<b>or</b>
SOCI	4330	Gender Research in Social Psychology

Total 18 hours

## ▲ Philosophy ▲

### FULL-TIME FACULTY

Buckman, Kenneth L., Associate Professor  
 Gilson, Greg, Assistant Professor  
 Leach, Stephen, Assistant Professor  
 Jones, Cynthia, Associate Professor  
 Pearson, Thomas D., Associate Professor  
 Trott, Adriel, Assistant Professor  
 Wimberly, Cory, Assistant Professor  
 Zents, Jeff, Lecturer

### ▲ General Overview: Philosophy

The Department of History and Philosophy offers a major in philosophy within the Bachelor of Arts degree, as well as a minor in philosophy. The study of philosophy can serve many useful purposes, but perhaps the most important are

:

- The philosophy program offers courses in two sections of the UTPA Undergraduate Core Curriculum. All of our lower division courses except PHIL 1321 satisfy the 041 humanities components. PHIL 1321 satisfies the 020 mathematics component for all COAH majors and for many other non-engineering, non-science majors.
- Training in philosophy helps one to think more clearly, more perceptively and more effectively. Regardless of one's personal and occupational goals, and regardless of the projects in which one is interested, being able to think clearly and well about them is an essential tool.
- Study of philosophy uniquely helps one to better understand and appreciate oneself, the world outside and how the two are related. One of the deepest human needs is to make sense of life and one's place in it, and the satisfaction of that need is the central concern of philosophy.

A major in philosophy provides strong preparation for a variety of careers, particularly in business, law, public policy and the ministry, as well as college teaching. A minor in philosophy provides excellent support for majors in numerous fields, particularly history, government, English, psychology, sociology, math and certain areas in science and business administration.

### ▲ Degree Requirements

#### Major in Philosophy

Core Curriculum Requirements 43 hours

Complete the core curriculum requirements as shown on pages 99-101 of this catalog.

#### Requirements for a Major in Philosophy:

- 36 total hours of Philosophy, 24 of which must be upper division.
- Select three (3) semester hours from:
 

PHIL	1320	Introduction to Logic
PHIL	1321	Introduction to Formal Logic
PHIL	3320	Symbolic Logic
- Select three (3) semester hours from:
 

PHIL	2330	Introduction to Ethics
PHIL	2350	Introduction to Social and Political Philosophy
PHIL	2390	Professional Ethics
PHIL	2391	Biomedical Ethics
PHIL	2392	Business Ethics
PHIL	2393	Engineering Ethics
PHIL	3330	Aesthetics
PHIL	4350	Moral Philosophy
PHIL	4351	Topics in Applied Ethics
PHIL	4355	Social and Political Philosophy
- Select three (3) semester hours from:
 

PHIL	4310	Epistemology
PHIL	4330	Metaphysics
- PHIL 3305 Philosophical Method
- PHIL 3359 History of Philosophy: Ancient Philosophy
- PHIL 3361 History of Philosophy: Modern
- Designated Electives: 18 hours in Philosophy

TOTAL 120 hours

#### Requirements for a Minor Philosophy:

- 18 total hours of Philosophy, 9 of which must be upper division.
- Select three (3) semester hours from:
 

PHIL	1310	Introduction to Philosophy
PHIL	2330	Introduction to Ethics
- Select three (3) semester hours from:
 

PHIL	1305	Critical Thinking
PHIL	1320	Introduction to Logic
PHIL	1321	Introduction to Formal Logic
- Designated Electives: 12 hours in Philosophy

## The Religious Studies Minor

The Religious Studies minor is a new program housed in the UTPA Philosophy program. The curriculum includes a wide array of courses designed to equip students to understand the profound religious traditions that shape and inform the diverse communities we all live in. The global environment of the 21st century is driven largely by religious considerations and commitments, and the Religious Studies minor will enable students to function well in that complex environment. The curriculum involves a two-pronged academic exploration of 1) different religious traditions (e.g., native religious traditions, Borderlands spirituality, Christianity, Islam, Judaism, Buddhism, Hinduism, indigenous faiths, etc.); and 2) different approaches to the study of religion (historical, social, political, intellectual, philosophical, scientific, literary, and artistic). The curriculum helps prepare students for a variety of careers in religious vocations and academia, but it will also help future journalists, teachers, lawyers, doctors, and business leaders operate in the complex religious milieus of the coming decades. More broadly, by providing a greater understanding of religion in its pluralistic expressions the Religious Studies minor will promote a more informed citizenry. For more advisement and more information, contact Dr. Tom Pearson in Department of History & Philosophy at: pearson@utpa.edu

### Course Descriptions

A listing of philosophy courses offered by the Department of History and Philosophy can be found on page 323 of this catalog.

## Mexican American Studies

Students who want to major or minor in Mexican American Studies should consult with the director.

### Major in Mexican American Studies

The Bachelor of Arts degree in Mexican American Studies is a transdisciplinary program taught by the faculty of the Departments of History and Philosophy, Psychology and Anthropology, Sociology, Criminal Justice, Political Science, Art, Music, and Modern Languages, Literatures. The program is designed as a broad field major.

### Major Requirements

**45 hours**

MCLL	2301	Mexican American Language, Literature, and Cultural Studies
3 hours of Mexican American Fine Arts/Kinesiology (Art, Dance, Music, MCLL, KIN)		
HIST	3373	Mexican American Heritage
ANTH	3375	Mexican American Folklore
ENG	4316	Mexican American Literature
SOCI	4323	The Mexican American People

Spanish Language Proficiency 6 hours

at Intermediate Level

SPAN 2307 Intermediate Spanish I

SPAN 2308 Intermediate Spanish II

Electives: 15 hours, of which 12 must be advanced, from designated MAS Courses

## Mexican American Studies COURSES

College of Arts and Humanities

ART:

ART 4351: Latin American Art: Pre-Conquest

ART 4352: Latin American Art: Post-Conquest

Dance:

DANC 2249, 3249, 4249 Mexican Dance:  
Primary Technique

DANC 2250, 3250, 4250 Mexican Dance:  
Secondary Technique

English:

ENG 4316 - Mexican-American Literature

ENG 4319: South Texas Literature

ENG 4320: Topics in Border Studies

ENG 4331: Introduction to Border Language

History:

HIST 3373: Mexican-American Heritage

HIST 3333: Colonial Mexico

HIST 3375: Spec Topic: Chicana History

HIST 4322: Spanish SW to 1821

HIST 4325: The American Southwest to 1821

HIST 4353: History of Mexican Culture

HIST 4363: U.S. – Latin American Relations

HIST 4397: Spec Topic: Mexican American  
Civil Rights

HIST 4398: Spec. Topic: US Mexican Border  
Inter-American Studies:

LAMS 2301: Intro. to Inter-American Studies  
Modern and Classical Languages and

Literature:

MCLL 2301: Chicana/o Language, Literature,  
and Cultural Studies

MCLL 2301: Border Corrido

Music:

MUS 1208, 3210: Mariachi Ensemble

MUS 1308: Mexican Folk Music

Philosophy:

PHIL 3379: Chicana and Latin American  
Feminisms

Spanish:

SPAN 2307 & 2308: Intermediate Spanish I & II

SPAN 3303: Advanced Spanish Composition I

SPAN 3304: Advanced Spanish Composition II

SPAN 3316: Mexican Novel

SPAN 3340: Introduction to Latin American

Literature

SPAN 3343: Spanish Language Media Studies  
SPAN 4311: Mexican Literature I  
SPAN 4329: Mexico's Contemporary Literature  
SPAN 4348: Sociolinguistics and Latino Health  
SPAN 4392: Women Writers on the Border  
SPAN 4392: Special Topics in Hispanic Literature

Women's Studies:

WMST 3308/MCLL: Female Identity in  
Women's Literature of the South  
& Southwest  
WMST 3379/PHIL: Chicana & Latin American  
Feminisms

College of Social and Behavioral Science

Anthropology:

ANTH 2323: Mexican-American Culture  
ANTH 3375: Mexican-American Folklore  
ANTH 4350: Mexican-American Folk Medicine  
ANTH 4353: Folklore of the Lower Río  
Grande Valley

Criminal Justice:

CRIJ 2326: Police-Community Relations

Political Science:

POLS 3363: Latinas/os in U.S. Politics  
POLS 3365: Politics of Immigration  
POLS 3364: U.S.- Mexico Border Relations

Sociology:

SOCI 4313: American Minorities  
SOCI 4323: The Mexican-American People  
SOCI 4352: Social Inequality  
SOCI 4380: Social Protests and Social Movements

Psychology:

PSYC 4328: Psychological Issues in the Mexican  
American Community

College of Education

Kinesiology:

KIN 2235: Mexican Folkloric Dance

\*Other MAS coursework not listed will be considered In  
consultation with advisor

### Course Descriptions

Courses offered by other departments can be found  
under their respective headings in the Course Catalog.

### Minor in Mexican American Studies

**Minor in Mexican-American Studies:** (18 hours, 6 of which  
must be advanced)

- MCLL 2301: Mexican American Lang, Lit, and  
Cultural Studies
- 3 Hours of Mexican American Fine Arts/Kin  
(Art, Dance, Music, MCLL, KIN)
- HIST 3373: Mexican American Heritage  
or  
ENG 4316: Mexican American Literature
- SOCI 4323: The Mexican American People  
or  
ANTH 3375: Mexican American Folklore
- 6 additional hours of coursework to be selected  
from MAS coursework listed above.

## ▲ Modern Languages and Literature ▲

### DR. GLENN A. MARTINEZ, DEPARTMENT CHAIR

Communication Arts and Sciences Building, Room 329  
1201 W. University Drive  
Edinburg, TX 79539-2999  
Telephone: 956/381-3441  
Fax: 956/318-5381  
E-mail: martinezg@utpa.edu  
www.utpa.edu/dept/modlang

#### FULL-TIME FACULTY

Alvarez Martinez, Stephanie, Assistant Professor, Spanish,  
Literature  
Ardalani, Elvia G., Assistant Professor,  
Spanish, Literature and Creative Writing  
Baez, Nalda, Assistant Professor, Spanish, Literature  
Behar, Stella, Associate Professor, French, Literature  
Browne, Peter E., Associate Professor, Spanish,  
Literature and Creative Writing  
Calarge, Carla, Assistant Professor, French, Literature  
Contreras, Victoria, Professor, Spanish,  
Foreign Language Teaching  
Cortina, Guadalupe M., Associate Professor,  
Spanish, Literature  
Diaz de Sharp, Monica, Assistant Professor,  
Spanish, Literature, Emeritus Professor  
Flores, Maria E., Lecturer, Spanish, Language  
Garcia, Carmela, Lecturer, Spanish, Language

Guerrero, Maria, Assistant Professor  
Hernandez, Jose E., Assistant Professor,  
Spanish, Linguistics

Loera, Francisco, Lecturer, Spanish,  
Music and Popular Culture

Martin-Ochoa, Luz Maria, Assistant Professor,  
Spanish, Literature and Creative Writing

Martinez, Glenn A., Professor,  
Spanish, Linguistics

Martinez, Jose Maria, Associate Professor, Spanish,  
Literature

Mejias, Hugo, Professor, Spanish, Linguistics

Rabenaarivo, Fara, Assistant Professor

Rea, Ramiro R., Professor, Spanish,  
Literature and Creative Writing

Romero, Hector R., Professor, Spanish, Literature

Sharp, Ethan P., Assistant Professor,  
Latin American Studies

#### EMERITUS PROFESSORS

Dominguez, Sylvia M., Spanish

Garcia, Lino, Spanish

Vassberg, Lilliane, French

## ▲ General Overview

The Department of Modern Languages and Literature consists of the subject areas of Spanish and French. A major, leading to a Bachelor of Arts degree, is offered in Spanish and French and a minor is offered in Spanish and in French. Teacher certification plans in Spanish and French are available at both the elementary and secondary levels.

The department also offers a graduate program with a major in Spanish leading to the Master of Arts degree. More information is available in the Graduate Catalog.

## ▲ Bachelor of Arts in Latin American Studies

The undergraduate major in Latin American Studies offers students a unique opportunity to combine concentrated work in more than one academic field in preparation for careers in a wide variety of areas. These include government and industry, banking and international commerce, international organizations and agencies, private foundations, journalism and teaching. In addition, the Latin American Studies major provides excellent preparation for advanced study in graduate or professional schools where degree programs are related to Latin American issues.

## ▲ Degree Requirements

### Major in Latin American Studies

Core Curriculum Requirements 43 hours  
Complete the University core curriculum requirements as described in this catalog.

Core Courses		18 hours
SPAN	1301	Beginning Spanish and
SPAN	1302	Beginning Spanish or
SPAN	1303	Beginning Spanish and
SPAN	1304	Beginning Spanish
SPAN	2307	Intermediate Spanish for Native Speakers
SPAN	2308	Intermediate Spanish for Native Speakers
LAMS	2301	Introduction to Inter-American Studies
LAMS	4301	Seminar in Latin American Studies

### Concentration in Culture, Society and Health

15 hours

Choose five courses from the following group:

ANTH	3310	Medical Anthropology
ANTH	4350	Mexican-American Folk Medicine
PSY	4326	Cross-Cultural Psychology
SOCI	3324	Sociology of Health
SOCI	3393	Sociology of Aging
SOCW	4311	Research for the Social Services
SPAN	2317	Spanish for the Health Professions*
SPAN	4348	Sociolinguistics and Latino Health

\*Subject to approval.

### Concentration in International Relations

15 hours

Choose five courses from the following group:

ECON	3336	Political Economy of Mexico
HIST	4352	Brazil After Independence
HIST	4354	Contemporary Mexico
HIST	4355	Spanish South America Since Independence
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
INTB	3330	International Business
POLS	3364	U.S.-Mexico Border Relations
POLS	4383	Politics of Central America and the Caribbean
POLS	4386	South American Politics
POLS	4387	Politics of Mexico
PORT	3301	Portuguese for Spanish Speakers*

\*Subject to approval.

### Concentration in Mexican and Border Studies

15 hours

Choose five courses from the following group:

ANTH	3375	Mexican-American Folklore
ANTH	4348	Peoples and Cultures of Mexico
ANTH	4350	Mexican-American Folk Medicine
ANTH	4353	Folklore of the Lower Rio Grande Valley
HIST	3333	Colonial Mexico, Central America and South America
HIST	3373	Mexican-American Heritage
HIST	4322	Spanish Southwest to 1821
HIST	4345	Mexico's First Century as an Independent Republic
HIST	4353	History of Mexican Culture
HIST	4354	Contemporary Mexico
POLS	3364	U.S.-Mexico Border Relations
SPAN	3316	The Mexican Novel
SPAN	4311	Mexican Literature I
SPAN	4329	Mexico's Contemporary Literature
SPAN	4391	Special Topics in Hispanic Linguistics
SPAN	4392	Special Topics in Hispanic Literature

\*Subject to approval.

**Concentration in Independent Study**

15 hours

With the approval of the Latin American Studies advisor, students will choose five courses that have thematic coherence from at least two separate disciplines.

Designated Electives 9 hours

Choose one course in language training beyond SPAN 2308 or one course in Spanish American Literature at the 3000-level or above or one course in Latin American art or music.

Choose one course in Latin American history or philosophy at the 3000-level or above.

Choose one course in the social sciences (anthropology, political science or sociology) on Latin America at the 3000-level or above.

Electives 36 hours

Total 120 hours

**Minor in Latin American Studies**

Required Courses 6 hours

SPAN	2307	Intermediate Spanish for Native Speakers
SPAN	2308	Intermediate Spanish for Native Speakers

Choose one course from the following: 3 hours

HIST	3333	Colonial Mexico, Central America and South America
HIST	4374	Caribbean and Central America

Choose one course from the following: 3 hours

SPAN	3310	Masterpieces of Spanish-American
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Literature I

SPAN	3311	Masterpieces of Spanish-American Literature II
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Choose one course from the following: 3 hours

POLS	4383	Politics of Central America and the Caribbean
POLS	4387	Politics of Mexico
ANTH	4348	Peoples and Cultures of Mexico

Other Electives 3 hours

ANTH	2323	Mexican-American Culture
ANTH	3368	Peoples of South America
ANTH	3375	Mexican-American Folklore
ANTH	4348	Peoples and Cultures of Mexico
ANTH	4353	Folklore of the Lower Rio Grande Valley
ANTH	4365	Archaeology of South America
ANTH	4369	Archaeology of Mexico and Central America
ART	4351	Latin American Art: Pre-Conquest
ART	4352	Latin American Art: Post-Conquest
ECON	3336	The Political Economy of Mexico
ENG	3320	Special Topics: Latino Literature
ENG	4316	Mexican-American Literature
HIST	3373	Mexican-American Heritage
HIST	3333	Colonial Mexico, Central America and South America
HIST	3335	History of Spain
HIST	4322	Spanish Southwest to 1821
HIST	4345	Mexico's First Century as an Independent Republic
HIST	4352	Brazil After Independence
HIST	4353	History of Mexican Culture
HIST	4354	Contemporary Mexico
HIST	4355	Spanish South America since Independence
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
KIN	2235	Mexican Folkloric Dance
MUS	1208/3210	Mariachi Ensemble
MUS	1308	Mexican Folk Music
PHIL	3380	Latin American Thought
POLS	3363	American Hispanic Politics
POLS	3364	U.S.-Mexico Border Relations
POLS	4383	Politics of Central America and the Caribbean
POLS	4386	South American Politics
POLS	4387	Politics of Mexico
PSY	4328	Psychological Issues in the Mexican-American Community
SOCI	4323	The Mexican-American People
SPAN	3301	Spanish Literature, 1100-1750
SPAN	3302	Spanish Literature, 1750-present
SPAN	3303/3304	Advanced Spanish Composition
SPAN	3306	Basic Concepts of Spanish Phonetics and Phonology
SPAN	3310	Masterpieces of Spanish-American Literature I

SPAN	3311	Masterpieces of Spanish-American Literature II
SPAN	3316	The Mexican Novel
SPAN	3330	Spanish Grammar
SPAN	4303	Spanish Civilization (in Spanish)
SPAN	4304	Spanish Lyric Poetry (in Spanish)
SPAN	4305	Cervantes (in Spanish)
SPAN	4306	History of the Spanish Language
SPAN	4307	Spanish-American Novel
SPAN	4308	Medieval Spanish Literature
SPAN	4311	Mexican Literature I
SPAN	4317	Golden Age Prose (in Spanish)
SPAN	4318	Theatre and Poetry of the Golden Age
SPAN	4325	Caribbean Literature
SPAN	4329	Mexico's Contemporary Literature
SPAN	4338	Nineteenth Century Spanish Literature
SPAN	4339	Spanish-American Short Story
SPAN	4340	Spanish-American Essay

Language		9 hours
SPAN	2307	Intermediate Spanish for Native Speakers I
SPAN	2308	Intermediate Spanish for Native Speakers II
SPAN	3303	Advanced Spanish Composition
Literature		12 hours
SPAN	3309	Techniques of Literary Analysis
SPAN	3340	Introduction to Latin American Literatures
SPAN	3341	Introduction to Spanish Literatures
SPAN	3345	Introduction to Latino/a Literature
Linguistics		12 hours
SPAN	3319	Introduction to Hispanic Linguistics
SPAN	3306	Spanish Phonetics and Phonology
SPAN	3330	Advanced Spanish Grammar
SPAN	4316	Problems and Issues Related to Language

## Major in Spanish (with certification)

### Teacher Certification Programs and Requirements

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://www.utpa.edu/colleges/coe/studentsservices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

#### Core Curriculum Requirements 43 hours

Complete the requirements shown in the University core curriculum requirements section of this catalog on pages 99-101 EXCEPT for the sections, groups or areas listed here, which must be satisfied only as shown below.

#### Section A. Humanities

##### Group 4. Other Humanities

Students must select courses from Area 1 and Area 2.

#### Area 1. The Arts

Choose one from the following:

ART 1301 Art Appreciation

or

MUS 1307 Music Appreciation

#### Core Courses 36 hours

Complete the following:

#### Designated Electives 3 hours

Choose 3 hours from the following:

SPAN	3301	Spanish Literature, 1100-1750
SPAN	3302	Spanish Literature, 1750-present
SPAN	3310	Masterpieces of Spanish-American Literature I
SPAN	3311	Masterpieces of Spanish-American Literature II
SPAN	3309	Techniques of Literary Analysis
SPAN	3316	The Mexican Novel
SPAN	4303	Spanish Civilization (in Spanish)
SPAN	4304	Spanish Lyric Poetry (in Spanish)
SPAN	4305	Cervantes (in Spanish)
SPAN	4306	History of the Spanish Language
SPAN	4307	Spanish-American Novel
SPAN	4308	Medieval Spanish Literature
SPAN	4309	Contemporary Spanish Literature
SPAN	4311	Mexican Literature I
SPAN	4318	Theatre and Poetry of the Golden Age
SPAN	4325	Caribbean Literature
SPAN	4330	Spanish Sociolinguistics
SPAN	4338	Nineteenth Century Spanish Literature
SPAN	4339	The Spanish-American Short Story
SPAN	4340	The Spanish-American Essay
SPAN	4348	Sociolinguistics and Latino Health

TOTAL 121 hours

### Major in Spanish (without certification)

Same as above excluding SPAN 4316, which may be taken as an elective.

### Major in French Studies

Core Courses 33 hours

Complete the following: 12 hour

- FREN 1321 Beginning French I
- FREN 1322 Beginning French II
- FREN 2321 Intermediate French I
- FREN 2322 Intermediate French II

Choose from the following: 15 hours

- FREN 3321 French Composition I
- FREN 3322 French Composition II
- FREN 3323 Business French
- FREN 4320 French Civilization on Location
- FREN 4322 Survey of French Literature
- FREN 4324 French Civilization I
- FREN 4325 French Civilization II
- FREN 4339 Special Topics in French Literature

Concentration 6 hours

Choose six hours from one concentration:  
Literature

- ENG 4318 Approaches to Literature
- SPAN 3309 Techniques of Literary Analysis

Linguistics

- ENG 3319 Introduction to Descriptive Linguistics
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology

History

- HIST 4370 The Renaissance and Reformation, 1300-1650
- HIST 4375 Absolutism and Enlightenment in Europe, 1650-1789
- HIST 4376 Revolutionary Europe, 1789-1850
- HIST 4383 Europe's Age of Imperialism, 1850-1919
- HIST 4393 Contemporary Europe, 1919-Present

Art History

- ART 3352 Contemporary Art
- ART 4301 Philosophies of Art

Philosophy

- PHIL 3360 History of Philosophy: Ancient and Medieval
- PHIL 3361 History of Philosophy: Modern
- PHIL 3362 History of Philosophy: Contemporary
- PHIL 4310 Theories of Knowledge
- PHIL 4320 Philosophy of Science

Sociology

- SOCI 4333 Social Theory
- SOCI 4352 Social Inequality
- SOCI 4360 Sociology of Education
- SOCI 4380 Social Protest and Social Movements

Communication

- COMM 4315 History of the Theatre I

COMM 4316 History of the Theatre II

International Affairs

- POLS 3334 Modern Political Theory
- POLS 3343 International Politics

International Business

- INTB 3330 International Business
- ECON 3353 International Trade
- ECON 4362 Global Entrepreneurship

**Minor in Spanish** (without certification)

18 hours in Spanish, of which six hours must be advanced.

**Minor in Medical Spanish 18 hours**

- SPAN 1301/1303 or equivalent proficiency exam
- SPAN 1302/1304 or equivalent proficiency exam
- SPAN 2317 Intermediate Spanish for Health Professionals I
- SPAN 2318 Intermediate Spanish for Health Professionals II
- SPAN 3348 Advanced Spanish Composition for the Health Professions
- SPAN 4348 Sociolinguistics and Latino Health

**Minor in Hispanic Media Studies**

(See Department of Communication)

**Minor in French** (without certification)

Eighteen hours, of which six must be advanced and among the following: FREN 3321, FREN 3322, FREN 3323 and FREN 4322, FREN 4324, FREN 4325 or FREN 4339.

**Minor in French** (with teacher certification)

Twenty-four hours, of which 12 must be advanced and among the following: FREN 3321, FREN 3322, FREN 3323 and FREN 4120, FREN 4322, FREN 4324, FREN 4325 or FREN 4339.

**Teacher Certification Programs and Requirements**

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information <http://www.utpa.edu/colleges/coe/studentervices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398



and EDHS 4399.

## Course Descriptions

Courses offered by the Department of Modern Languages and Literature can be found under their respective headings in the course descriptions section beginning on page 284 (French), page 299 (Latin American Studies, and page 348 (Spanish).



## ▲ Music and Dance ▲

### DR. PEDRO MARTINEZ,

#### DEPARTMENT CHAIR

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www.utpa.edu/dept/music

#### FULL-TIME FACULTY

Amorim, George, Lecturer

Blomquist, Melinda, Lecturer

Canty, Dean R., Associate Professor

Cripps, Cynthia, Assistant Professor

Coberly, Rebecca, Assistant Professor

Dabrowski, Peter, Professor

Darsow, Fred, Associate Professor

David, Pierre, Lecturer

Davis, Virginia, Assistant Professor

Davis, Wendell, Associate Professor

Grossman, Morley K., Professor

Guerra, Dahlia, Professor, Dean of College

Kapps, Sarah, Lecturer

Lopez, Luis, Lecturer

Martinez, Kurt, Assistant Professor

Martinez, Pedro, Assistant Professor,  
Chairman of Department

Munn, Christopher, Professor

Munn, Vivian, Associate Professor

Munn, Albert, Professor

Muñoz, Frank, Lecturer

O'Neil, Lorne William, Professor

Pagan, Joel, Assistant Professor

Ragland, Catherine, Assistant

Ramirez, Mark, Assistant Professor

Roeder, Scott, Assistant Professor

Saywell, Martha, Lecturer

Seitz, Diana, Assistant Professor

Shackelford, Dana, Associate Professor

Varlamova, Ludmila, Lecturer

Writer, Justin, Assistant Professor

#### EMERITUS PROFESSOR

Raimo, John

Seale, Carl

## ▲ General Overview

The Department of Music offers a major within the Bachelor of Arts degree. In addition, it offers teaching fields for majors in all-level music teacher certification.

All students majoring in music, in addition to taking courses in general education, theory and literature of music, pursue excellence in performance in their areas of major interest. Instruction is offered in voice, guitar, piano and all of the instruments of the band and orchestra.

Graduate music courses are offered leading to the Master of Music degree, and Master of Arts in interdisciplinary studies degree with a concentration in music (MAIS-Music). More information is available in the Graduate Catalog.

## ▲ Degree Requirements

### Departmental Requirements

A grade of C or higher in each required course in music is necessary for that course to apply toward a degree with a major in music.

Transfer students may be required to validate (by examination) credits earned in applied music and music theory at other institutions. Failure to pass validation will result in the repetition of courses required to reach proper standards.

Precise definition of standards is provided by the department, and examination in applied music is before a faculty jury.

Music majors and music minors must enroll in piano until the piano proficiency examination has been passed. The piano proficiency examination must be passed as a prerequisite to enrolling in upper-level music courses. Transfer students are required to pass the department's piano proficiency examination, regardless of the number of transfer hours.

Each full-time music major must be a member of the large ensemble of his/her area of concentration each semester during which he/she is enrolled, or a minimum of seven semesters. These assignments are as follows: Wind and Percussion-Band; Strings-Orchestra; Voice, Piano-Choir; Guitar-Guitar Ensemble. Pianists and others who play appropriate instruments with sufficient proficiency may use band or orchestra for their ensemble requirements. Participation in smaller ensembles is required for applied majors.

A music major who selects the performance curriculum will perform a 30-minute public recital during the junior year and 45 minute-long public recital during the senior year. A music major who selects the teacher preparation curriculum will prepare one-half of a music recital during the senior year and, at the discretion of a faculty committee, perform it in public.

Music majors will study privately in their areas of concentration during each semester they are enrolled full time (12 hours or more). Music majors enrolled in applied

music will enroll in applied music lab and attend University concerts and recitals as a part of the course requirement. Examinations in applied music are given at the end of each semester before a jury of music faculty members. Students enrolled in applied music will appear in recitals at the discretion of their instructor.

### Major in Music: Applied Music

Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

Core Courses		30 hours
MUS 1313	First-Year Music Theory I	
MUS 1314	First-Year Music Theory II	
MUS 2201	Music Literature	
MUS 3212	Music Theory III	
MUS 3113	Aural Skills III	
MUS 3214	Music Theory IV	
MUS 3115	Aural Skills IV	
MUS 3301	History of Music	
MUS 3302	History of Music	
MUS 3207	Conducting I	
MUS 4201	Form and Analysis	
MUS 4203	Orchestration and Arranging	

Select 9 hours of additional advanced music courses.

### Designated Electives

Applied Music 16 hours  
Eight semesters minimum, of which four semesters must be advanced.

Music Ensemble 8 hours  
Eight semesters minimum, of which four semesters must be advanced.

### Other Requirements

- Proficiency in piano.
- One 30-minute junior recital.
- One 45 minute senior recital.
- A total of 51 hours in music-must be advanced.

NOTE: A minor is not required.

TOTAL 123 hours

### Requirements for All-Level Teacher Certification

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following all-level certification degree plans (grades EC-12) should consult with their advisor in the department in which their degree is offered. They should also seek information and admission requirements from the College of Education Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302. Students may call the office at 956/381-3420 or log on to

the Web site for more information <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for all-level certification include the following: EDAL 3301, EDAL 3302, EDAL 3303, EDAL 4303, READ 4351, EDAL 4398, EDAL 4395 (art only), EDAL 4396 (music only), EDAL 4397 (special education only). Kinesiology majors are also required to take EDAK 3370 and EDAK 3380.

Core Curriculum Requirements 43 hours  
Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

Core Courses 30 hours

- MUS 2212 Music Theory I
- MUS 2113 Aural Skills I
- MUS 2214 Music Theory II
- MUS 2115 Aural Skills II
- MUS 2201 Music Literature
- MUS 3212 Music Theory III
- MUS 3113 Aural Skills III
- MUS 3214 Music Theory IV
- MUS 3115 Aural Skills IV
- MUS 3301 History of Music
- MUS 3302 History of Music
- MUS 3207 Conducting I
- MUS 3216 Elementary Music
- MUS 4201 Form and Analysis
- MUS 4203 Orchestration and Arranging
- MUS 4208 Conducting II

Designated Electives Instrumental

- All are required
- MUS 2122 Class Percussion
  - MUS 2123 Class Brass
  - MUS 2124 Class Woodwinds
  - MUS 2125 Class Strings

- Vocal/Keyboard All are required
- MUS 2120 Vocal Diction
  - MUS 2127 Song Literature
  - MUS 3122 Choral Repertoire
  - MUS 3125 Vocal Pedagogy\*

\*Required for students with a major instrument of voice or piano.

Applied Music

Seven semesters minimum, of which three semesters must be advanced.

Music Ensemble

Seven semesters minimum, of which three semesters must be advanced.

- Block I:
- EDAL 3301 Foundations of All-Level Education
  - EDAL 3302 Human Development, Learning Theory and Assessment

EDAL 3303 Instructional Methods for English Learners and Learners with Exceptionalities at All Levels

Block II:

EDAL 4303 Internship I: Planning and Curriculum Development for Grades 8-12

READ 4351 Developmental Reading in Secondary Schools

Block III (Student Teaching):

EDAL 4396 Supervised Internship II: All-Level in Music

EDAL 4398 Integrated Internship II: Seminar All-Level

Other Requirements

Proficiency in piano.

Senior Recital

A total of 60 hours in music, of which 30 hours must be advanced.

NOTE: A second teaching field is not required.

TOTAL 123 hours

**Minor in Music: Applied Music**

2 semesters of first year music theory and aural skills

6 hours

MUS2212/MUS2113 (Taken concurrently) and MUS2214/MUS2115 (Taken Concurrently)

1 semester of music literature or music appreciation 2 or 3 hours

MUS2201 or MUS1307 or MUS1308 or MUS1309

2 semesters of applied lessons on the same instrument

hours

(1 lower level, 1 upper level)

MUS 12xx/32xx: 1 hour applied music lesson

2 semesters of large ensemble

2 hours

(1 lower level, 1 upper level)

MUS 1101/3102, 1103/3104, 1104/3105, 1105/3106, or other ensembles by departmental permission only

3 additional hours of upper level coursework in music 3 hours

ensembles, lessons, conducting, women in music, music business, music education, etc.

Any Combination of the above courses totalling 3+ Credits

Piano proficiency 1 hour  
*(Block 1 only - Student will take Class Piano MUS 1112 until they pass Block 1)*  
 MUS1112

**TOTAL 18-19 hours**

A listing of courses offered by the Department of Music can be found on page 314.

**Major in Dance: Performance Track**

Required Courses 21 hours

- DANC 1351 Intro to Dance
- DANC 2101 Dance Improvisation
- DANC 2203 Music for Dancers
- DANC 2112 Dance Performance Beginning/Intermediate or
- DANC 3112 Dance Performance Intermediate/Advanced (two hours required)
- DANC 3202 Choreography I
- DANC 3308 Dance History
- DANC 3311 Dance Production
- DANC 3320 Dance Science
- DANC 4202 Choreography II

Required Dance Techniques Courses 34 hours

Thirty-four hours total; 24 hours advanced, 14 hours each from two different techniques. One must be ballet or modern. Two hours from remaining technique (Ballet, Modern, Folklorico, or Flamenco). Minimum of one year required at each level and/or faculty approval to advance.

Select from:

- DANC 2241 Ballet I: Primary Technique
- DANC 2242 Ballet II: Secondary Technique
- DANC 2245 Modern Dance I: Primary Technique
- DANC 2246 Modern Dance I: Secondary Technique
- DANC 2249 Mexican Dance I: Primary Technique
- DANC 2250 Mexican Dance I: Secondary Technique
- DANC 2253 Spanish Dance I: Primary Technique
- DANC 2254 Spanish Dance I: Secondary Technique
- DANC 3241 Ballet II: Primary Technique
- DANC 3242 Ballet II: Secondary Technique
- DANC 3245 Modern Dance II: Primary Technique
- DANC 3246 Modern Dance II: Secondary Technique
- DANC 3249 Mexican Dance II: Primary Technique
- DANC 3250 Mexican Dance II: Secondary Technique
- DANC 3253 Spanish Dance II: Primary Technique
- DANC 3254 Spanish Dance II: Secondary Technique
- DANC 4241 Ballet III: Primary Technique
- DANC 4242 Ballet III: Secondary Technique
- DANC 4245 Modern Dance III : Primary Technique
- DANC 4246 Modern Dance III : Secondary Technique
- DANC 4249 Mexican Dance III: Primary Technique
- DANC 4250 Mexican Dance III: Secondary

Technique  
 DANC 4253 Spanish Dance III: Primary Technique  
 DANC 4254 Spanish Dance III: Secondary Technique

Additional Requirements 12 hours

- DANC 4102 Senior Project
- DANC 3312 Dance Philosophy and Criticism
- DANC 3313 World Dance
- DANC 4310 Dance Theory: Ballet, Modern, Jazz
- DANC 4311 Dance Theory: Folk
- DANC 4309 Dance Pedagogy

**TOTAL 67 hours**

Additional Dance Hours 4 hours

DANC 3112 Dance Performance (4 hours required)

Advance Electives 6 hours  
 six hours must be advanced

**Total 120 hours**

**Major in Dance: HighSchool Certification**

Required Courses 21 hours

- DANC 1351 Intro to Dance
- DANC 2101 Dance Improvisation
- DANC 2203 Music for Dancers
- DANC 2112 Dance Performance Beginning/Intermediate or
- DANC 3112 Dance Performance Intermediate/Advanced (2 hours required)
- DANC 3202 Choreography I
- DANC 3308 Dance History
- DANC 3311 Dance Production
- DANC 3320 Dance Science
- DANC 4202 Choreography II

Required Dance Techniques Courses 20 hours

20 hours total; 16 hours advanced, 8 hours each from two different techniques. One area must be modern. Two hours from each remaining technique (Ballet, Folklorico or Flamenco). Minimum one year required at each level and/or faculty approval to advance.

Select from:

- DANC 2241 Ballet I: Primary Technique
- DANC 2242 Ballet I: Secondary Technique
- DANC 2245 Modern Dance I : Primary Technique
- DANC 2246 Modern Dance I : Secondary Technique
- DANC 2249 Mexican Dance I: Primary Technique
- DANC 2250 Mexican Dance I: Secondary Technique
- DANC 2253 Spanish Dance I: Primary Technique
- DANC 2254 Spanish Dance I: Secondary Technique
- DANC 3241 Ballet II: Primary Technique
- DANC 3242 Ballet II: Secondary Technique

DANC 3245	Modern Dance II: Primary Technique
DANC 3246	Modern Dance II: Secondary Technique
DANC 3249	Mexican Dance II: Primary Technique
DANC 3250	Mexican Dance II: Secondary Technique
DANC 3253	Spanish Dance II: Primary Technique
DANC 3254	Spanish Dance II: Secondary Technique
DANC 4241	Ballet III: Primary Technique
DANC 4242	Ballet III: Secondary Technique
DANC 4245	Modern Dance III: Primary Technique
DANC 4246	Modern Dance III: Secondary Technique
DANC 4249	Mexican Dance III: Primary Technique
DANC 4250	Mexican Dance III: Secondary Technique
DANC 4253	Spanish Dance III: Primary Technique
DANC 4254	Spanish Dance III: Secondary Technique

Additional Requirements	9 hours
DANC 3312	Dance Philosophy and Criticism
DANC 3313	World Dance
DANC 4102	Senior Project
Two hours	Elective from DANC

TOTAL 50 hours

Professional Education Courses 24 hours

EDHS 4301	Foundations of Education
EDHS 4302	Instructional Planning and Assessment
EDHS 3305	Instructional Methods for English Language Learners and Learners with Exceptionalities in High School
EDHS 4303	Instructional Strategies and Classroom Management
DANC 4313	Dance in the Public Schools
EDHS 4398	Integrated Internship II: 8-12
EDHS 4399	Supervised Internship II: 8-12
DANC 4309	Dance Pedagogy

Other Requirements

READ 4351	Developmental Reading in Secondary Schools
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TOTAL 120 hours

### Minor in Dance: Non-Certified

Required Courses 14 hours

DANC 2101	Dance Improvisation
DANC 2112	Dance Performance
or	
DANC 3112	Dance Performance (2 hours required)
DANC 3308	Dance History
DANC 3311	Dance Production

Select two hours from:

DANC 3202	Choreography I
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DANC 2203 Music Dancers

Select three hours from:

DANC 3312	Dance Philosophy and Criticism
DANC 3313	World Dance
DANC 3320	Dance Science

Required Dance Technique Courses 10 hours

Ten hours total; four hours advanced; four hours each from two different techniques. One area must be ballet or modern; 2 hours from one remaining technique area (Ballet, Modern, Mexican, or Spanish) Minimum one year required at each level and/or faculty approval to advance.

Select from:

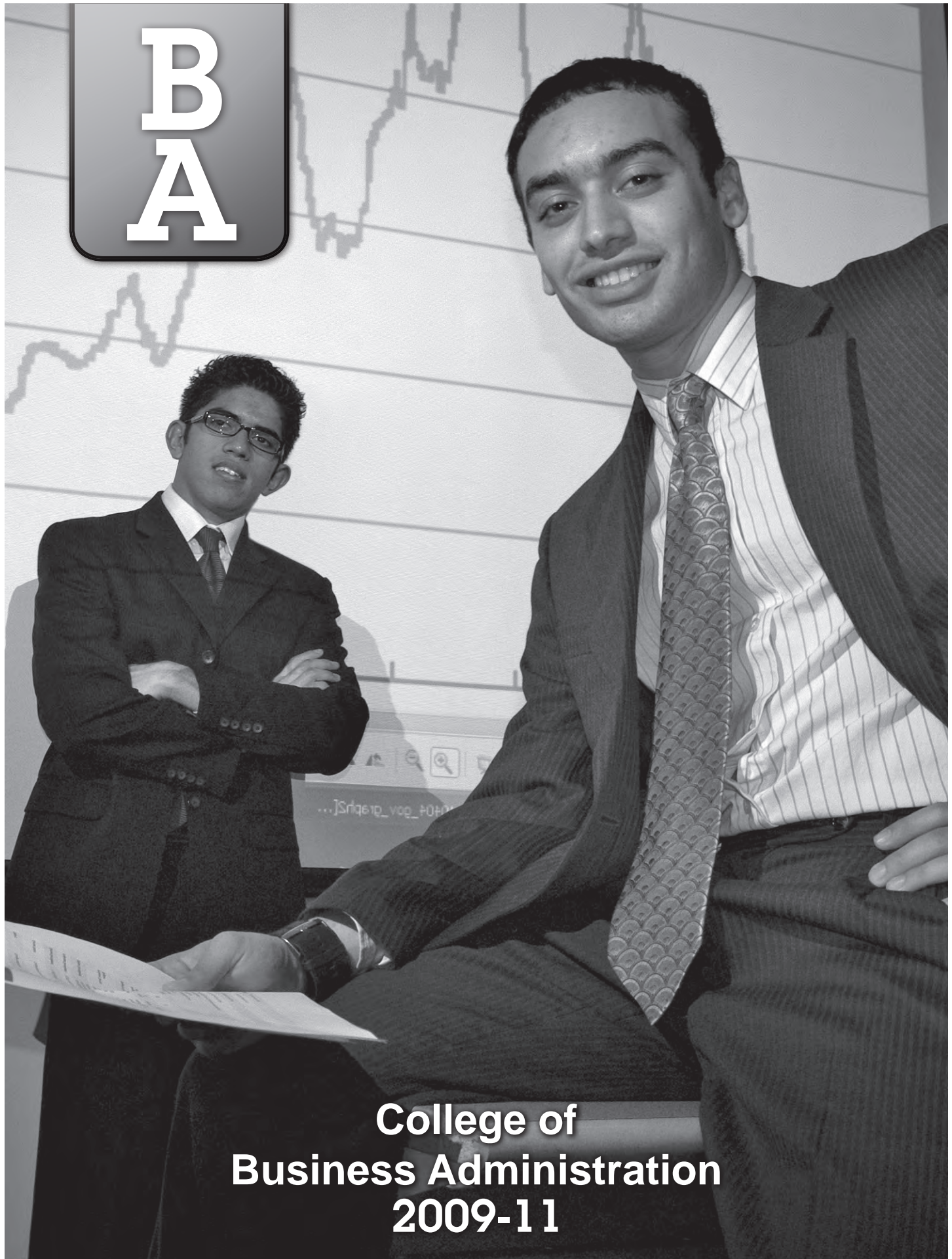
DANC 2241	Ballet I: Primary Technique
DANC 2242	Ballet I: Secondary Technique
DANC 2245	Modern Dance I: Primary Technique
DANC 2246	Modern Dance I: Secondary Technique
DANC 2249	Mexican Dance I: Primary Technique
DANC 2250	Mexican Dance I: Secondary Technique
DANC 2253	Spanish Dance I: Primary Technique
DANC 2254	Spanish Dance I: Secondary Technique
DANC 3241	Ballet II: Primary Technique
DANC 3242	Ballet II: Secondary Technique
DANC 3245	Modern Dance II: Primary Technique
DANC 3246	Modern Dance II: Secondary Technique
DANC 3249	Mexican Dance II: Primary Technique
DANC 3250	Mexican Dance II: Secondary Technique
DANC 3253	Spanish Dance II: Primary Technique
DANC 3254	Spanish Dance II: Secondary Technique
DANC 4241	Ballet III: Primary Technique
DANC 4242	Ballet III: Secondary Technique
DANC 4245	Modern Dance III: Primary Technique
DANC 4246	Modern Dance III: Secondary Technique
DANC 4249	Mexican Dance III: Primary Technique
DANC 4250	Mexican Dance III: Secondary Technique
DANC 4253	Spanish Dance III: Primary Technique
DANC 4254	Spanish Dance III: Secondary Technique

TOTAL 24 hours

### Course Descriptions

A listing of Dance courses can be found on page 259.

**B  
A**



**College of  
Business Administration  
2009-11**

# College of Business Administration

**DR. TEOFILO OZUNA, DEAN**

Business Administration, BUSA 114  
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www.utpa.edu/colleges/coba

## ▲ GENERAL OVERVIEW

All degree programs in the College of Business Administration are fully accredited by the Association to Advance Collegiate Schools of Business (AACSB International).

The college is organized into four departments: Accounting and Business Law, Computer Information Systems and Quantitative Methods, Economics and Finance, and Management, Marketing and International Business. Two associate deans, four department chairpersons and the directors of undergraduate studies, MBA program and doctoral program, assist the dean in coordinating the academic activities of the college.

“Business After Five” is designed to meet the educational needs of a wide variety of students. By taking a combination of evening and online distance learning classes, it is now possible for a student to complete the requirements for a Bachelor of Business Administration (BBA) degree at UTPA. Information on this program can be obtained by contacting the director of undergraduate programs.

### Mission

The mission of the UTPA College of Business Administration is to:

- Develop business and academic leaders who are qualified and committed to the improvement of society.
- Produce scholarly research relevant to domestic and global businesses.
- Support professional, community and University activities that contribute to economic progress, social

improvement and intellectual development.

## ▲ ACADEMIC PROGRAMS

The College of Business Administration offers a Bachelor of Business Administration with majors in accounting, economics, finance, computer information systems, and management, marketing and international business. The college also offers a Bachelor of Arts (BA) degree with a major in economics. Students working toward non-BBA degrees may pursue a minor in business administration, computer information systems, economics, entrepreneurship, and human resource management. Graduate programs include the Master of Business Administration (MBA), Master of Science in Accounting (MSA), Master of Accountancy (MACC) and Doctor of Philosophy (PhD) in business administration.

## ▲ BACHELOR OF BUSINESS ADMINISTRATION

### Degree Requirements

To graduate from UTPA with a BBA degree, students must successfully complete the 120 hours included in the core curriculum, the business foundation courses, business core courses, and the major coursework with an overall GPA of at least 2.0.

Core Curriculum Requirements 43 hours

Students must complete the requirements described in the core curriculum requirements section of this catalog, EXCEPT as indicated below:

### Section D. Humanities

Group 4. Other Humanities  
PHIL 1320 Introduction to Logic  
(required of CIS majors)

### Section C. Mathematics

MATH 1340 College Algebra  
or  
MATH 1341 Business Algebra or higher level math

### F. Institutionally Designated Options

CIS 1301 Computer Information Systems  
(fulfills the core curriculum requirement for computer literacy [CIS 1201] and the business foundation requirement [CIS 1101]).

### E. Social Sciences

Group 3. Other Social Science  
ECON 2301 Principles of Macroeconomics

Business Foundation Courses 16 hours

ACC 2301	Introduction to Financial Accounting	
ACC 2302	Fundamentals of Managerial Accounting	
CIS 1101	Introduction to Office Software (Business majors who have previously completed two hours of computer literacy MUST take CIS 1101, otherwise completion of CIS 1301 fulfills both this requirement and the core curriculum computer literacy requirement.)	
COMM 1302	Introduction to Communication	
	or	
COMM 1303	Presentation Speaking	
ECON 2301	Principles of Macroeconomics (hours counted in General Education Core)	
ECON 2302	Principles of Microeconomics	
MATH 1342	Business Calculus	
	or	
QUMT 2342	Computational Method in Business	
Business Core Courses		30 hours
BLAW 3337	Business Law I	
FINA 3383	Managerial Finance	
MANA 3361	Principles of Management and Organizational Behavior	
MANA 4369	Strategic Management	
MARK 3371	Principles of Marketing	
QUMT 3343	Statistical Methods for Business	
Economic Policy (select one):		
ECON 3360	Managerial Economics	
ECON 3381	Money and Banking	
Information Systems (select one):		
ACC 3326	Accounting Information Systems	
CIS 3390	Management Information Systems (required of CIS majors)	
International Business (select one):		
ACC 3350	International Accounting	
BLAW 3340	Legal Considerations of International Business	
CIS 3380	Global Information Systems (required of CIS majors)	
ECON 3353	International Trade	
FINA 4381	International Finance	
INTB 3330	International Business	
MARK 4330	International Marketing	
Analytical Methods (select one):		
ACC 3328	Quantitative Methods in Accounting	
ECON 3341	Econometrics	
ECON 3342	Business and Economics Forecasting	
MANA 4363	Production Management	
MARK 4382	Marketing Research Analysis	

QUMT 4343	Quantitative Methods for Decision Making in Business	
Major Coursework		27 hours
The specific combination of required and elective courses to be completed by students undertaking the various majors within the BBA degree (accounting, computer information systems, economics, finance, management, marketing, and international business) are described in detail under the following departmental pages of the catalog.		
Coursework in Professionalism and Ethics		4 hours

### Pre-Business Major

Lower-division (freshman and sophomore) students who plan to pursue a BBA degree are classified as pre-business majors. Pre-business majors focus their studies on the UTPA core curriculum courses and the business foundation courses that must be completed before admission into the College of Business Administration. Students must complete their general education courses with at least a 2.0 cumulative GPA, and must receive a grade of C or higher in each of the six business foundation courses (listed below). While enrollment in upper-division (junior and senior) business courses for students pursuing a BBA degree is generally limited to those who have officially been admitted into the College of Business Administration, pre-business majors may take up to six hours of junior-level coursework in the College of Business Administration if they have completed at least 54 hours of coursework with at least a 2.0 cumulative GPA and have completed all six business foundation courses with grades of C or higher.

To become a business major, pre-business majors should apply for admission into the College of Business Administration during the semester in which they will complete the admission requirements listed below — generally the second semester of their sophomore year. Students transferring to The University of Texas-Pan American from another accredited institution of higher education will be considered for admission into the College of Business Administration if they meet all the admission requirements.

Current UTPA students who are planning to pursue a BBA degree, but are not currently pre-business majors, are encouraged to request a change of major to pre-business. In addition, all prospective business majors are encouraged to attend a BBA basics information session to find out more about the College of Business Administration programs and services.

### Admission to the College of Business Administration

Students pursuing a BBA degree must be admitted into the College of Business Administration before they are allowed to complete their upper-division coursework.



Admission into the College of Business Administration is restricted to those students who have successfully met the admission requirements listed below. As noted above, pre-business majors are generally eligible to apply for admission into the College of Business Administration during the second semester of their sophomore year. Students accepted into the College of Business Administration may have to meet additional requirements for specific majors within the college. Please read the requirements for each major in the catalog.

Students majoring in economics through the BA degree program, as well as non-business majors with degree plans requiring particular upper-division business courses, are not required to apply for admission into the College of Business Administration, nor do they need special permission to take those specified courses as long as the degree plans have been approved by the college, and the students have completed the appropriate prerequisites. However, such students will only be allowed to take those upper-division courses that are designated to fulfill the degree requirements.

### Admission Requirements

- Complete the UTPA core curriculum with at least a 2.0 cumulative GPA.
- Complete a total of 60 hours of coursework with at least a 2.0 cumulative GPA.
- Complete each of the following business foundation and core curriculum courses with C or better:

ACC 2301 Introduction to Financial Accounting

ACC 2302 Fundamentals of Managerial Accounting

CIS 1301 Computer Information Systems or Equivalent

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

MATH 1340 College Algebra  
or

MATH 1341 Business Algebra  
or higher level of mathematics

### Application to the College of Business Administration

Applications for admission into the College of Business Administration are available in the Office of Admissions and New Student Services, on the College of Business Administration Web site or at the office of the director of undergraduate programs in the College of Business Administration. Although you may submit your application for admission as soon as you believe you have met the application requirements, it is important to send any new or updated transcript to the University's Office of Admissions and New Student Services and wait for an official transfer evaluation BEFORE submitting your application to ensure that its consideration is based on current information. The deadline for submitting an application for admission to the College of Business Administration is 4:30 p.m. on the last business day prior to the beginning of the semester for which admission is desired. Applications should be submitted to the director of undergraduate programs in the College of Business

Administration.

### Transfer Students and Transfer Work

The College of Business Administration welcomes graduates of Texas community colleges and transfer students from other schools. Through careful planning, full-time students can earn a BBA degree in four years. By adhering to the Transfer Curricula and Transfer of Credit guidelines of the Texas Higher Education Coordinating Board, students attending community colleges and other Texas schools can transfer to The University of Texas-Pan American without loss of credit. Students who plan to transfer to the UTPA College of Business Administration should develop their program of academic coursework in consultation with their academic advisors.

Degree applicability of all coursework completed under business programs that are not accredited by the Association to Advance Collegiate Schools of Business (AACSB International) must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be made by the applicable department chair or the dean of the College of Business Administration.

Any upper-division business course taken at a non-AACSB accredited school must be validated before it can be used to satisfy graduation requirements for BBA degrees at UTPA. Validation may be accomplished either by taking a higher-level course in the same subject area and making a grade of at least a "C" or by retaking the course.

Contact the director of Undergraduate Programs in the College of Business Administration for further information.

### Core Curriculum Requirements

By completing the transfer core curriculum recommendations for business majors, transfer students will be considered to have satisfied the UTPA lower-division core curriculum requirements. Only those transfer courses with grades of at least a "C" will be accepted for credit toward the BBA degree. Courses taken at two-year institutions or in fulfillment of the requirements for two-year degrees are accepted by the College of Business Administration as transfer credits for lower-division courses only.

### Business Courses

If you are transferring to UTPA to pursue a BBA degree, you will still need to apply to the College of Business Administration and follow all University admission requirements. Admission into the College of Business Administration does not ensure admittance to the University. Questions regarding the University requirements should be directed to the Office of Undergraduate Admissions at 956/381-2481, located at SSB 3.104.

If you do not meet the criteria required for admission to the college when you apply, you will be classified as a pre-business major if you are admitted to the University. You may apply for admission to the College of Business Administration at a later date when you meet the admission criteria.

## ▲ BACHELOR OF ARTS WITH A MAJOR IN ECONOMICS

The College of Business Administration also offers a BA degree with a major in economics. There is not a formal application process into the College of Business Administration for UTPA students majoring in economics who are pursuing the BA degree. (Economics majors pursuing the BBA degree must follow the formal application process described above.) However, prerequisites will be enforced, and students will be monitored to ensure that they complete the UTPA core curriculum requirements with a GPA of 2.0 or higher before taking upper-division economics courses. Students pursuing the BA degree while majoring in economics should contact the Department of Economics and Finance for the specific degree requirements, or refer to the economics major - BA degree requirements listed under the Department of Economics and Finance in this catalog.

Economics majors in the BA degree program do not need special permission to take courses in the College of Business Administration as long as they are included in their degree plans and all prerequisites have been completed.

## ▲ BUSINESS MINORS

The College of Business Administration offers business minors in business administration, computer information systems, economics, entrepreneurship, human resources management and marketing for students pursuing non-BBA degrees. Students seeking a business minor must successfully complete the 18 hours of coursework required under the chosen minor (along with any applicable prerequisites). Students who are pursuing or considering pursuing a business minor are encouraged to meet with an academic advisor in the Center for Advisement, Recruitment, Internships and Retention (CARIR) of the College of Business Administration, the director for undergraduate programs, or the chair of the appropriate department.

### Minor in Business Administration

A minor in business administration is designed to enhance the marketability of students pursuing non-BBA degrees. This minor complements such degree programs as engineering, health care, nursing, counseling and communication. The minor in business administration consists of the following 18 hours of coursework:\*

ACC	2301	Fundamentals of Managerial Accounting
ACC	2302	Introduction to Financial Accounting
ECON	2301	Principles of Economics I
FINA	3383	Managerial Finance
MANA	3361	Principles of Management and Organizational Behavior

\*Consult the Undergraduate Course Descriptions or contact the director of undergraduate studies in the College of Business Administration for prerequisites to specific courses.

### Minor in Computer Information Systems

A minor in computer information systems is available to all students pursuing non-BBA degrees and is designed to prepare students for entry-level positions in the computer field. The minor in computer information systems consists of 18 hours of coursework as specified below: \*(Any six CIS courses).

Students with no programming and multimedia background may take any combination of four more CIS upper division courses after taking:

CIS	2301	Business Information Technologies
CIS	2308	Introduction to Business Programming

NOTE: All CIS core and elective courses have CIS 2301 or CIS 2308 as prerequisites.

Students who have taken equivalent programming and multimedia courses may take any combination of six upper-division CIS courses.

\*Consult the Undergraduate Course Descriptions or contact the Department of Computer Information Systems and Quantitative Methods for prerequisites to specific courses.

### Minor in Economics

A minor in economics is designed to enhance the marketability of students pursuing non-BBA degrees, particularly those seeking careers in law, public administration/government, health care, social work and engineering. This minor complements such majors as political science, engineering, health care, and other social/behavioral sciences. The minor in economics consists of 18 hours of coursework as specified below:\*

ECON	2301	Principles of Macroeconomics
ECON	2302	Principles of Microeconomics
ECON	3351	Macroeconomic Theory
ECON	3352	Microeconomic Theory

Six hours of upper-level ECON courses.

\*Consult the Undergraduate Course Descriptions or contact the Department of Economics and Finance for prerequisites to specific courses.

### Minor in Entrepreneurship

A minor in entrepreneurship serves as an ideal complement for students pursuing non-BBA degrees, who plan to start and successfully operate a small business upon graduation. This program specifically focuses on small business operations in the Lower Rio Grande Valley. The minor in entrepreneurship consists of 18 hours of coursework selected from the following:\*

CIS	3380	Small Business Technology
ECON	3360	Managerial Economics
FINA	3391	Small Business Financial Management
FINA	3393	Entrepreneurial Finance
INTB	4362	International Entrepreneurship
MANA	4352	Family and the Small Business
MANA	4366	Small Business Management

\*Consult the Undergraduate Course Descriptions or contact the director of undergraduate studies in the College of Business Administration for prerequisites to specific courses.

#### Minor in Human Resource Management

A minor in human resource management is designed to complement many students' majors, enhancing their marketability upon graduation. Students majoring in such fields as psychology, communication, nursing, counseling, engineering and political science may be especially interested in this minor. The minor in human resources management consists of 18 hours of coursework as specified below:\*

MANA	3362	Human Resource Management
MANA	3365	Compensation
MANA	3366	Recruitment and Selection
MANA	3367	Organizational Training and Development
MANA	4361	Organization Behavior

Electives (select one):

MANA	3300	Internship in Management* (must involve a position in HRM)
MANA	3335	Communication Policy and Strategy
MANA	4368	Industrial Relations

\*Consult the Undergraduate Course Descriptions or contact the Department of Management, Marketing and International Business for prerequisites to specific courses.

#### Minor in Marketing

A minor in marketing will provide students pursuing non-BBA degrees with an opportunity to develop knowledge, skills, and practices essential for the successful marketing of all types of organizations, products and services, including nonprofit organizations. In addition, it may enhance the marketability of students seeking careers that interface with consumers. The minor in marketing consists of 18 hours of coursework as specified below:\*

ECON	2302	Principles of Microeconomics
MARK	3371	Principles of Marketing
MARK	3372	Consumer Behavior
Electives	Select an additional nine upper-division MARK hours	

\*Consult the Undergraduate Course Descriptions or contact the Department of Management, Marketing and International Business for prerequisites to specific courses.

#### ▲ NON-BUSINESS MAJORS

Non-business students with degree plans requiring upper-division business courses do not need special permission to take courses in the College of Business Administration if those degree plans have been reviewed by the College of Business Administration and if the students have completed all appropriate prerequisites. However, such students are only allowed to take those upper-division business courses that have been specifically designated to fulfill their degree requirements.

#### ▲ GRADUATE PROGRAMS

The College of Business Administration offers the opportunity for advanced study leading to the Master of Business Administration (MBA) degree, the Master of Science in Accounting (MSA), the Master of Accountancy (MACC) and a Doctor of Philosophy (Ph.D.) in business administration.

The MBA program is designed for those who wish to pursue advanced studies in a multicultural environment as a means of enhancing their business and administrative careers. Both full-time and part-time students can enroll in the MBA program. The MSA and MACC prepare students for a profession in public accounting and meet the educational requirements of the Texas State Board of Public Accountancy and the Texas Society of Certified Public Accountants.

The Ph.D. in business administration, with an emphasis in international business, offers graduates the opportunity to prepare for faculty positions in state, national and international universities, or to fill management roles in the private sector or in government service.

#### ▲ SERVICE ORGANIZATIONS

A total University experience includes providing students with the opportunity to develop leadership skills, to become part of the decision-making process and to create linkages with the business community. To that end, the following fraternities and student chapters of professional organizations are active.

- Association of Latino Professionals in Finance and Accounting
- Beta Gamma Sigma, a national honor society for

business administration majors

- Accounting Society
- American Marketing Association - Student Chapter
- Association for Information Technology Professionals
- Financial Management Association
- Forum for International Relations and Business
- Hispanic Business Students Association
- International Business Association
- MBA Association
- National Hispanic Professionals Organization
- Society for Human Resource Management

### ▲ COBA ADVISORY COUNCIL

Advice and guidance from civic and business leaders are provided through the College of Business Administration Advisory Council. The council serves as a liaison to the business community, helps provide financial support for the college, and provides job opportunities for graduates.

### ▲ STUDENT ADVISEMENT, INTERNSHIPS AND PLACEMENT

The Center for Advisement, Recruitment, Internships and Retention (CARIR) offers guidance to students on programs of study, provides information on scholarships for business students, and assists in matching students with available internship opportunities. Internships are available as electives for all majors in business. Additional information on internships, scholarships, course selections and programs of study may be obtained by contacting the CARIR office or the director of undergraduate programs. Placement information may be obtained from the Career Services office. In addition, the University Retention and Advisement Program (URAP) maintains an office in the College of Business Administration to advise students who have not declared a major. The college also has two professional academic guidance counselors who are available to provide academic advisement to business students and a Career Services specialist assigned to the college by University Career Services.

## ▲ Business Law ▲

### DR. JOHN W. DARCY, INTERIM DEPARTMENT CHAIR

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#### FULL-TIME FACULTY

Anabila, Andrew, Assistant Professor  
Atamian, Rubik, Associate Professor  
Ayala, Marion, Lecturer  
Cohen, Nigel, Lecturer  
Ruiz, Mariela, Lecturer  
Darcy, John, Associate Professor  
Ganguli, Gouranga, Professor  
Lantz, Keith W., Professor  
Mollick, Carolina, Lecturer  
Moyes, Glen, Professor  
Ramon, Israel, Senior Lecturer  
Sanchez, Delia, Lecturer  
Smolarski, Jan, Associate Professor  
Van Zante, Dr. Neal, Associate Professor  
Young, Randall Frederick, Assistant Professor  
Zhou, Haiyan, Associate Professor

### ▲ GENERAL OVERVIEW

The Department of Accounting and Business Law offers the Bachelor of Business Administration (BBA) degree with a major in accounting, the Master of Science (MSA) in accounting, and a Master of Accountancy (MACC). A major in accounting with electives outside the accounting area is not designed to prepare graduates for entry-level positions in private and public accounting. The student who wishes to pursue a career as an accounting professional should use their electives to take additional accounting courses. The MSA degree provides the educational requirements necessary for a graduate to sit for the uniform CPA examination. Since professional examinations are structured to test the candidates over a broad range of accounting topics, students should seek advice from the accounting faculty to select elective courses that will help them in their satisfactory completion of certification requirements. Information on the MSA and MACC degrees can be found in the UTPA Graduate Catalog.

**Mission**

The mission of the Department of Accounting and Business Law is to achieve excellence in accounting education by providing high quality instruction and curricula in its academic programs, relevant intellectual contributions, and professional service.

**▲ ACADEMIC PROGRAMS**

The department provides a learning environment in which students develop a diverse set of skills including technical competence, critical thinking, strong communication abilities, and the ability to use technology to prepare them for professional careers in a dynamic world. To accomplish these objectives, the department maintains an environment that encourages outstanding teaching, continuous improvement and innovation in the delivery of instruction.

**▲ INTELLECTUAL GUIDELINES**

The department provides an environment that fosters intellectual contribution by the faculty to the body of knowledge of accounting, business law and related fields. The results of faculty involvement in basic, applied and pedagogical research are integrated into the curriculum where appropriate.

**▲ SERVICE**

Our faculty members are encouraged to provide educational and professional service to the University community, accounting profession and to the public.

**▲ DEGREE REQUIREMENTS****Major in Accounting**

Every candidate for the BBA degree with a major in accounting must fulfill the following requirements in addition to the core curriculum, business foundation and business core requirements described in pages 135-140 of the above College of Business Administration section1. Accounting majors must have an average of at least 2.5 in all accounting courses taken in order to graduate.

Accounting Major 27 hours

Required Courses 15 hours

ACC 3320	Cost Accounting
ACC 3321	Intermediate Accounting I
ACC 3322	Intermediate Accounting II
ACC 3323	Individual Income Tax
ACC 3327	Fundamentals of Auditing

Elective Courses (with approval of advisor) 12 hours  
Twelve hours of upper-level courses.

**Combined BBA/MSA in Accounting**

The combined BBA/MSA allows students to receive simultaneously a BBA in accounting and a MSA degree. The program has been designed to meet the Texas State Board of Public Accountancy's requirements to sit for the CPA exam in Texas and is available only to accounting majors. In order to be provisionally admitted to the MSA program, a student must meet all of the following criteria:

- Have completed 75 hours of undergraduate work with an overall GPA of 2.5 or higher.
- Have a GPA of 3.0 or better in ACC 2301, ACC 2302 and the first accounting course numbered in the 3000 range.

Students with provisional admission to the MSA program will apply for unconditional admittance to the MSA program during the last semester of their senior year. At that time, they must meet the following criteria:

- Have no more than 15 hours of undergraduate work remaining.
- Have an overall GPA of 2.5 or higher.
- Have a GPA in accounting courses of 3.0 or higher.
- Provide a letter of intent explaining why they wish to obtain the MSA degree.

Unconditional admittance to the program allows the student to begin to take graduate-level courses while completing the remaining undergraduate work. Students who have been provisionally admitted to the MSA program 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 in order to receive a bachelor's degree.

The program of study for the combined BBA/MSA program includes the following requirements in addition to the core curriculum and business foundation requirements described on pages 135-140 in the above College of Business Administration section.

Business Core	30 hours
BLAW 3337	Business Law I
FINA 3383	Managerial Finance
MANA 3361	Principles of Management and Organizational Behavior
MANA 4369	Strategic Management
MARK 3371	Principles of Marketing
QUMT 3343	Statistical Methods for Business
ECON 3360	Managerial Economics
	or
ECON 3381	Money and Banking
ACC 3326	Accounting Information Systems
INTB 3330	International Business
ACC 3328	Quantitative Methods in Accounting

Accounting Specialization

(undergraduate level)		21 hours
ACC	3320	Cost Accounting
ACC	3321	Intermediate Accounting I
ACC	3322	Intermediate Accounting II
ACC	3323	Individual Income Tax
ACC	3327	Fundamentals of Auditing
ACC	3329	Intermediate Accounting III
ACC	4330	Advanced Accounting (Consolidations)

Master's Level Requirements 24-27 hours  
For course descriptions for master's-level courses, please see the Graduate Catalog.

MACC	6310	Auditing
MACC	6320	Tax Topics
MACC	6330	Accounting Theory
MACC	6340	Managerial Accounting
MACC	6350	Information Technology
MACC	6360	Tax Research Methodology
MACC	6370	Internal Auditing and Assurance Services
MACC	6333	Business Law for Accountants
FINA	6340	Financial Administration**

Graduate Accounting Elective		3 hours
MACC	6380	Professional Ethics
ACC	6320	Financial and Managerial Accounting

Graduate Course Electives 6 hours  
(Elect two courses from the MBA program that are not included in this program.)

**TOTAL HOURS**  
for simultaneous  
BBA and MSA degrees 151-154 hours

\*\*A student making an iA in FINA 3383 is exempt from FINA 6340.

Accounting courses in the 2000-, 3000- and 4000-levels are described in this catalog; those in the 6000-level are described in the Graduate Catalog.

# ▲ Computer Information Systems and Quantitative Methods ▲

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## FULL-TIME FACULTY

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Andoh Baidoo, Francis, Assistant Professor  
Crossler, Robert, Assistant Professor  
Hughes, Jerald, Assistant Professor  
Jackson, Joyce, Assistant Professor  
Johnk, David, Lecturer  
Koong, Kai, Professor, Department Chair  
Liu, Lai, Associate Professor  
Midha, Vishal, Assistant Professor  
Rogé, Joseph, Associate Professor  
Sung, Sam, Senior Lecturer  
Villarreal, Marco, Visiting Assistant Professor  
Wang, Bin, Assistant Professor

## Quantitative Methods

Tanguma, Jesus, Associate Professor  
Sun, Jun, Assistant Professor  
Qin, Hong, Assistant Professor

## Emeritus Faculty

Vincent, Vern

## ▲ GENERAL OVERVIEW

The Department of Computer Information Systems and Quantitative Methods offers a BBA with a major in computer information systems based on the curricula recommended by the Association of Information Technology Professionals. This major is designed to prepare students with the broad business and computer-related knowledge necessary to enter the information systems field. A minor in computer information systems is available to students from all non-business disciplines and is designed to prepare the student for entry-level positions in the computer field.

The department provides Computer Information Systems (CIS) courses for CIS majors, CIS minors, and other majors. It offers Quantitative Methods (QUMT),

Management Information Systems (MIS) and Information Systems and Quantitative Methods (ISQM) courses. Also, the department provides computer literacy courses for all majors to satisfy the computer literacy requirement of the University core curriculum.

It is recommended that students receiving a degree from the College of Business Administration certify their communication skills by taking the appropriate test.

#### Mission

Through a process of continuous improvement, the Department of Computer Information Systems and Quantitative Methods seeks to provide a high quality, future-oriented education program that prepares its graduates with the necessary analytical, technical and managerial background to function effectively in complex, culturally diverse and technologically-oriented professional environments. The department values and encourages a balance of teaching; together with basic, applied and pedagogical research; and service at a level consistent with both the University and college goals and objectives.

### ▲ DEGREE REQUIREMENTS

Every candidate for the Bachelor of Business Administration degree with a major in computer information systems must fulfill the following requirements in addition to the core curriculum, business foundation and business core requirements described on pages 135-140 in the above College of Business Administration section.

Computer Information Systems Major 27 hours

#### Required Courses

CIS	2301	Business Information Technologies
CIS	2308	Introduction to Business Programming
CIS	3335	Database Management Systems
CIS	3336	Systems Analysis
CIS	3338	Computer Networks
CIS	4308	IT Project Management

#### Elective Courses

9 hours

CIS	3300	Internship in CIS
CIS	3308	Advanced Business Programming
CIS	3312	Web System Programming
CIS	3320	Organization Information Assurance
CIS	3395	ERP Implementation
CIS	4312	Application Development for e-Commerce
CIS	4330	Business Intelligence
CIS	4336	System Design and Development
CIS	4391	Business Information Security
CIS	4395	ERP Customization

### Course Descriptions

A listing of the undergraduate courses offered by the Department of Computer Information Systems and Quantitative Methods can be found beginning on page 236 (CIS) and 338 (QUMT).

## ▲ Economics and Finance ▲

#### DR. ALBERTO DÁVILA, DEPARTMENT CHAIR

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#### FULL-TIME FACULTY

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Contreras, Salvador, Assistant Professor  
Damianov, Damian, Assistant Professor  
Dávila, Alberto, Professor, Department Chair  
Mollick, Andre V., Associate Professor  
Mora, Marie T., Professor  
Ozuna Jr., Teofilo, Professor and Dean  
Sutter, Daniel, Associate Professor  
Vidal, Jorge, Lecturer

#### Finance

Brown, Cynthia, Professor and Vice Provost for Graduate Studies  
Chen, Haiwei, Associate Professor  
Chua, Anusly, Assistant Professor  
Desai, Chintal, Assistant Professor  
Jackson, Dave O., Associate Professor  
Jin, Changha, Assistant Professor  
Lovell, Kenneth, Lecturer  
Ngo, Thanh, Assistant Professor  
Soydemir, Gokce, Professor

#### Emeritus Professors

Ellard, Charles J.

### ▲ GENERAL OVERVIEW

The Department of Economics and Finance offers degree opportunities in two areas—economics and finance. Students interested in economics may pursue either a Bachelor of Business Administration or a Bachelor of Arts degree. The Bachelor of Business Administration is also available in finance.

### ▲ DEGREE REQUIREMENTS

**Economics Major**

(BA degree - minor required) 120 total hours

Every candidate for the Bachelor of Arts degree with a major in economics must fulfill the 43-hour core curriculum, three hours of which should be MATH 1340 (College Algebra or higher), with the grade of "C" or higher. ECON 2301 (Principles of Macroeconomics), with the grade of "C" or higher, is recommended to fulfill the social/behavioral sciences component of the core. Students who do not take ECON 2301 (passing with the grade of "C" or higher) as part of the core requirement must take this course as part of their elective courses listed below.

Every candidate must also fulfill the following requirements:

Required Courses 45 hours

**Foundations Courses**

ECON	2302	Principles of Microeconomics (with grade of "C" or higher)
COMM	1302	Introduction to Communication
		or
COMM	1303	Presentational Speaking
		POLS 2334 Political Economy
QUMT	2341	Elementary Business and Economic Statistics
		or
MATH/STAT		Elementary Statistics and Probability
		or
SOCI	2301	Statistics for Behavioral Sciences

Plus six hours from the following  
(i.e., select two of these five options):

ACC	2301	Introduction to Financial Accounting
SOCI	1323	Current Social Issues
PSY	1310	Introduction to Psychology
ANTH	1323	Introduction to Cultural Anthropology

Any one upper-level POLS course.

**Upper Level Economics Courses**

ECON	3341	Econometrics (with grade of "C" or higher)
ECON	3351	Macroeconomic Theory (with grade of "C" or higher)
ECON	3352	Microeconomic Theory (with grade of "C" or higher)

Plus 18 additional hours of 3000/4000 level ECON courses, each with the grade of "C" or higher.

Note: Three hours of 3000/4000 FINA courses can

be substituted for one ECON course upon approval of department chair.

Elective Courses (with approval of advisor) 29 hours

These electives include the courses required for a minor. At least 24 hours must be in upper-level coursework that is not being used to meet the above requirements.

Note: Students who do not take ECON 2301 (passing with the grade of "C" or higher) to fulfill the social/behavioral sciences core curriculum requirement must take this course as part of these electives, and earn a grade of "C" or higher.

**Economics Major (BBA degree)**

Every candidate for the BBA degree with a major in economics must fulfill the core curriculum, business foundation, and business core requirements described above on pages 135-139 in the College of Business Administration Section. In addition, every candidate must fulfill the following requirements, (with a grade of "C" or higher):

Required and Elective Courses 27 hours

Required Courses 9 hours

ECON	3341	Econometrics
ECON	3351	Macroeconomic Theory
ECON	3352	Microeconomic Theory

Elective Courses 18 hours

(with approval of advisor)

Six hours of upper-level ECON courses.

Twelve hours of upper-level courses.

**Finance Major (BBA degree)**

Every candidate for the Bachelor of Business Administration degree with a major in finance must fulfill the core curriculum, business foundation, and business core requirements described above on pages 135-139 in the College of Business Administration Section. In addition, every candidate must fulfill the following requirements (with a grade of "C" or higher).

Required and Elective Courses 27 hours

Required Courses 9 hours

FINA	3382	Investment Principles
FINA	3386	Financial Institutions and Markets
FINA	4383	Advanced Managerial Finance

Elective Courses 18 hours

(with approval of advisor)

Six hours of upper-level FINA courses.

Twelve hours of upper-level courses.

**Course Descriptions**

A listing of courses offered by the Department of Economics and Finance can be found on pages 263 (ECON) and 283 (FINA).



# ▲ Marketing and International Business ▲

## MATTHEWS, LINDA, INTERIM DEPARTMENT CHAIR

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### FULL-TIME FACULTY

#### Management

Abebe, Michael, Assistant Professor  
Brewerton, F.J., Professor  
Gonzalez, Jorge, Assistant Professor  
Jung, Joo, Associate Professor  
Kaynak, Hale, Professor  
Lemaster, Opal Jane, Professor  
Matthews, Linda, Professor  
Morrison, Robert, Lecturer  
Nasif, Ercan, Associate Professor  
Sargent, John, Professor  
Sturges, David L., Associate Professor  
Wang, Lei, Assistant Professor  
Welbourne, Jennifer, Assistant Professor  
Wu, Sabin, Assistant Professor

#### Marketing

Cortes, Angelica, Associate Professor  
Firat, A. Fuat, Professor  
Garza, Joe, Lecturer  
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

### Emeritus Professors

De los Santos, Gilberto

## ▲ GENERAL OVERVIEW

The Department of Management, Marketing and International Business offers the Bachelor of Business Administration (BBA) in three areas—management, marketing or international business.

## ▲ Degree Requirements

Every candidate for the BBA degree with a major in management, marketing and international business must fulfill the following requirements in addition to the core curriculum, business foundation and business core requirements described on pages 135-140 in the above College of Business Administration section:

Management Major		27 hours
Required Courses		9 hours
MANA 3362	Human Resource Management	
MANA 4361	Organizational Behavior	
MANA 4366	Small Business Management	

The remaining 18 hours should be selected from the following:

INTB 4364	International Management
INTB 4368	Cross-Cultural Behavioral Management
MANA 3300	Internship in Management
MANA 3333	Digital Media for Management and Marketing
MANA 3335	Communication Policy and Strategy
MANA 3364	Organizational Theory
MANA 3365	Compensation
MANA 3366	Recruitment and Selection
MANA 3367	Organizational Training and Development
MANA 4300	Topics in Management
MANA 4363	Production Management*
MANA 4364	Business and Society
MANA 4365	Quality Management
MANA 4367	Purchasing and Supply Management
MANA 4370	Project Management

\*Must be selected if not taken to fulfill the analytical course requirement within the business core.

Marketing Major		27 hours
Required Courses		15 hours
MARK 3372	Consumer Behavior	
MARK 3380	Product and Brand Strategy	
MARK 3390	Pricing and Marketing Metrics	
MARK 4372	Integrated Marketing Communications	
MARK 4389	Marketing Management	

Elective Courses 12 hours  
To receive a Track Certificate, complete 12 hours in one of the following three tracks. The 12 elective hours may include any upper-level courses after consulting with a faculty member.

Channel and Logistics Certificate

MARK	3373	Business to Business Marketing
MARK	3375	Retailing
MARK	3378	e-Marketing
MARK	4340	Channels of Distribution
INTB	4360	Export Management
INTB	4363	Import Management
INTB	4367	Multimodal Transportation
INTB	4372	Business Logistics

Service and Customer Relations Certificate

MARK	3375	Retailing
MARK	3376	Professional Selling
MARK	3378	e-Marketing
MARK	3379	Services Marketing
MARK	3395	Music Marketing
MARK	4373	Sales Management

Markets and Strategy Certificate

MARK	3300	Internship in Marketing
MARK	3385	Hispanic Marketing
MARK	3395	Music Marketing
MARK	4350	New Product Development
INTB	4365	International Competitiveness
MARK	4379	Topics in Marketing
MARK	4383	Marketing Research Applications

**International Business Major**

**27 hours**

Required Courses

15 hours

BLAW	3340	Legal Considerations of International Business
INTB	4360	Export Management
INTB	4364	International Management
MARK	4330	International Marketing

Select one course from:

ECON	3353	International Trade
FINA	4381	International Finance
INTB	4365	International Competitiveness
INTB	4367	Multimodal Transportation

Career Path Option Courses

12 hours

(with approval of advisor)

Twelve hours of upper-level courses

Management Option

Marketing Option

Economics and Finance Option

Logistics Option

**Course Descriptions**

A listing of courses offered by the Department of Management, Marketing and International Business can be found on page 300 (MANA), 303 (MARK) and 294 (INTB).



**E**



**College of  
Education  
2009-11**

# College of Education

## DR. SALVADOR HECTOR OCHOA, DEAN

Education Complex, Room 3.102

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

### ▲ GENERAL OVERVIEW

The College of Education has 66 full-time tenured/tenure track faculty members and 12 full-time lecturers. Our faculty and staff serve approximately 2,200 undergraduate/post-baccalaureate students, 740 graduate (master's) students, and 60 doctoral students.

The college is comprised of four academic departments: Curriculum and Instruction, Educational Leadership, Educational Psychology, and Health and Kinesiology.

### ▲ ACADEMIC PROGRAMS

At the undergraduate level, the college offers a Bachelor of Science degree with majors in kinesiology and health, and Bachelor of Interdisciplinary Studies with undergraduate certification in EC-4 generalist with a specialization in special education, early childhood education, and bilingual education. The College of Education also offers a Bachelor of Interdisciplinary Studies in English language arts/reading for grades 4-8. At the graduate level, the College of Education offers a Master of Education (M Ed) with specializations in elementary education, secondary education, early childhood education, bilingual education, special education, reading, guidance and counseling, educational diagnostician, and educational leadership.

The College of Education offers a Master of Arts degree in school psychology, a Master of Science in kinesiology and a Doctor of Education (Ed D) in educational leadership.

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 programs in the College of Education are fully accredited by the State Board for Educator Certification (SBEC).

### ▲ MISSION

The mission of the College of Education at The University of Texas-Pan American is to continuously improve the educational process as it is implemented in the college and the community through teaching, research and service. The college values the rich cultural and linguistic history of the international border area and directs its programs and course offerings toward the preparation of professionals for an increasingly diverse population of learners.

### ▲ GENERAL INFORMATION

#### Undergraduate Admission to Teacher Certification

Teachers in the state of Texas are required by law to hold a valid Texas teacher's certificate at the appropriate level in the teaching field and specialization to which they are assigned. UTPA is approved by the State Board for Educator Certification (SBEC) to recommend students for teaching certificates in numerous baccalaureate degree fields. The rules adopted by SBEC are part of a larger body of state agency rules that are collected and published by the Office of the Secretary of State as the Texas Administrative Code (TAC). SBEC rules are codified under Title 19, Part VII, of the TAC. Title 19 is Education, and Part VII is the State Board for Educator Certification.

Students seeking a degree with certification must first apply for admission to the appropriate COE teacher preparation program at the Office of Teacher Certification and Admission Services located at the Education Complex, Room 1.302.

Students should be aware that SBEC may adopt new rules or amendments to or repeals of existing rules. Therefore, certification policies and requirements have the potential to change during the course of students' academic preparations at UTPA. Students are encouraged to stay in close contact with the Office of Teacher Certification and Admission Services to keep abreast of changes in the college. Students may call the office at 956/381-3420 or log on to <http://www.utpa.edu/colleges/coe/studentservices> for more information.

#### General Requirements for Texas Teaching Credentials

State Board for Educator Certification rules require an individual to have the following qualifications in order to receive a standard certificate (TAC RULE §230.413).

An applicant for a Texas educator certificate must:

- A. Be at least 18 years of age.

- B. Not be disqualified or the subject of pending proceeding under Chapter 249 of this title, relating to Disciplinary Proceedings, Sanctions and Contested Cases, including enforcement of the Educator's Code of Ethics.
- C. Not be disqualified by federal law.
- D. Be willing to support and defend the constitutions of the United States and Texas.
- E. Be able to speak and understand the English language sufficiently to use it easily and readily in conversation and teaching.
- F. Successfully complete all appropriate examinations (relating to Educator Assessment) for the educator certificate sought.

### Texas Testing Requirements for Certification To be approved for a Standard Texas Teacher's Certificate

Persons, including those holding a valid out-of-state certificate, shall be required to achieve a satisfactory level of performance on an examination prescribed by the State Board for Educator Certification.

The test is called TExES-Texas Examinations of Educator Standards. TExES must be taken and passed for the appropriate level, specialization, certificate and supplement in order to be recommended for certification.

Students who enroll only in a certification program are expected to meet or exceed the admission requirements of students in the regular program that corresponds to that certificate.

### Criminal Records

In accordance with Article 6252-13c, Texas Civil Statutes, the Texas Commissioner of Education may suspend or revoke a teaching certificate, or refuse to issue a teaching certificate to a person who has been convicted of a felony or misdemeanor for a crime that directly relates to the duties and responsibilities of the teaching profession.

## ▲ ADMISSION TO TEACHER EDUCATION AND INTERNSHIP II PROGRAMS

### Admission to Teacher Education

Admission to Teacher Education is required for all undergraduate students seeking teacher certification and enrolling in courses designated as EDCI, ED BE, EDEC, EDMS, EDHS, EDAL, EDAK, READ and SPED. Admission to Teacher Education is required for all undergraduate students seeking teacher certification. Admission requirements include minimum THEA/TASP/ACCUPLACER score and minimum credit hour requirements, as well as GPA and specific grade requirements for entrance to the program. All applicants must meet current admission requirements in effect at the time of application, regardless of catalog year. Applicants previously denied admission must **reapply** with all required documents **except**

**receipt** in order to be considered for admission.

Applicants should receive early advisement and follow application and degree plan requirements closely. Application takes place during the Sophomore/Junior year if all requirements specified on the application have been completed or will be in place by the end of the semester prior to admission to the program. Please see the application for a list of all requirements. **ALL APPLICANTS** must meet current admission requirements in effect at the time of application, regardless of catalog year. Applicants previously denied admission must reapply with all required documents except receipt. Application packets and related information are available on the Web and in the Office of Teacher Certification and Admission Services, EDCC 1.302, (956) 381-3420. For those pursuing a certification-track degree, most courses are taken in block format based on education program scheduling guidelines as explained during advisement. Please do not register for education coursework unless you have seen your designated College of Education advisor.

### • Minimum placement exam score requirements.

<i>Reading</i>	<i>Math</i>	<i>Writing</i>
240	230	240
<b>ACCUPLACER (TACCU) is an accepted alternative to the THEA/TASP</b>		
<i>Reading</i>	<i>Math</i>	<i>Writing</i>
82	82 Elementary Algebra	80 w/5 writing sample, or any score w/6 writing sample
Applicant may use a combination of THEA and ACCUPLACER qualifying scores (for example: THEA scores for Reading and Math, with an ACCUPLACER score for Writing) to meet score requirements.		

### • Applicant must be Core Complete with a minimum Core GPA of 2.50.

To be Core Complete, the applicant must have completed all courses under the Core/General Education section of the degree plan they are following or have earned an Associate of Arts, Associate of Arts in Teaching, or Associate of Science degree from an accredited two-year institution in Texas. **Associate degree, course grades, and/or credits used to fulfill the core requirements must be posted in the UTPA Student Information System (Banner) in order to be cleared for admission.** Only coursework taken that applies

to the UTPA core will be used to calculate the core GPA.

**• Overall GPA on the degree plan must be 2.50 or better**

Overall GPA includes Core, Major, and Minor area course grades. Grades for elective courses or courses **not** listed on the degree plan are not included in the overall GPA calculation for application purposes. Consequently, the cumulative GPA on the transcript may not be the same as the GPA used for application purposes. **All course grades and/or credits used to fulfill the degree requirements must be posted in the UTPA Student Information System (Banner) in order to be cleared for admission.**

**• At least 60 or 54 hours must be completed on degree plan depending on the student's core curriculum on the degree plan.**

With a **48-hour core curriculum**, the student is required to complete **60 hours** on their degree plan in order to be admitted. If the student is following a degree plan that has a **43-hour core curriculum**, the student is required to complete **54 hours** on their degree plan in order to be admitted.

Hours completed includes core, major, and minor area course grades. Grades for elective courses or courses **not** listed on the degree plan are not included in the hours completed for application purposes. **All course grades and/or credits used to fulfill the degree requirements must be posted to your UTPA transcript in order to be cleared for admission.**

**• Applicant must meet program requirements specified on application.**

**Student Fitness to Teach Policy**

The College of Education offers a field-based curriculum in teacher preparation programs designed to academically prepare individuals for the teaching profession. However, satisfying the program requirements alone do not make a candidate eligible for (UTPA) to recommend the candidate for Texas teacher certification. All teacher candidates in UTPA teacher preparation programs are expected to demonstrate that they are prepared to teach children and youth. This preparation results from the combination of successful completion of University coursework, field experiences, and the demonstration of required professional dispositions that all teachers should possess.

**Conditions for Enrollment for Internship II/ Student Teaching**

The Office of Field Experiences (OFE) will review all teacher candidates for admission into Internship II/Student Teaching Program. In accordance with Texas Education Code 22.083, an examination of each teacher candidate's criminal history will be conducted before student teaching. Criminal history record information, which includes both

conviction and arrest records, are obtained. An ISD may deny placement of students with a criminal background. The student's clearance for field work is the prerogative of the ISD and not UTPA. *It is solely at the discretion of the ISD to accept a student teacher with a criminal background.* If a student is unable to obtain a field-based placement, he/she will not meet UTPA's requirements for recommendation for teacher certification. A current negative TB test must be provided with application. Internship II/Student Teaching applications will be evaluated for all teacher candidates using the following requirements:

1. Successfully complete all respective program requirements (including field experience hours, portfolio, etc.).
2. Be within 12 hours of graduation (may be missing six hours on degree plus student teaching coursework 4399 and 4398).
3. Pass respective TExES content exams (*for elementary program students only*).
4. Complete all education coursework (interdisciplinary area/academic major **and** minor/academic specialization) with a minimum of 2.50 GPA in respective major **and** minor.
5. Have a cumulative 2.50 GPA on an official degree plan.

**Conditions for Completion of Internship II/ Student Teaching**

Upon acceptance to Internship II, the student successfully meeting all program requirements, as stated in *Internship II/ Student Teaching Handbook*, will continue on provisional status as a student teacher intern. During Internship II, a student not successfully meeting all program requirements may be placed on Probationary Status by the Director of the Office of Field Experiences in consultation with the university supervisor. If placed on Probationary status, the student will be placed on a Growth Intervention Plan. This affords the student an opportunity to clear his or her status. While on Probationary Status, if the student does not demonstrate progress, he or she may be dropped from the program. However, in cases of serious legal and ethical violations, the Office of Field Experiences in consultation with the OFE Advisory Council reserves the right to remove a student from a classroom and drop a student from Internship II. The student has the right to appeal at any phase of this process.

Completion of Internship II (student teaching) is a condition for meeting Texas teacher certification requirements. Students may attempt Internship II a maximum of two times. If a student does not successfully complete the second Internship II experience, he or she will not be eligible to enroll a third time. The student has the right to appeal in accordance with HOP 5.2.1

**Successful Fulfillment of Internship II/Student Teaching**

Students will need to complete Internship courses with

a C or better as a condition for meeting Texas Teacher Certification requirements.

## Graduate Teacher Education Certification (GTEC) Program

GTEC is a graduate teacher preparation program for degree individuals who are considering a transition to a career in teaching. It is an intensive program that allows individuals holding a degree to seek initial teacher certification (grades 4-8, 8-12, and K-12) and to continue working toward a master's degree in one of the following graduate programs:

- Master of Education in Secondary Education (M.Ed.)
- Master of Science in Kinesiology (M.S.)

Initial Teacher Certification Areas:

- Middle School (4-8): English Language Arts/Reading, Mathematics, Science, Social Studies
- Secondary (8-12): English Language Arts/Reading, Chemistry, History, Social Studies, Mathematics, Physical Science and Life Science

All-Level (EC-12): Heath, Music, Spanish, Physical Education

The program starts every summer with four graduate courses, and a full-year internship is completed during fall and spring. Students interested in the program need to apply first to the UTPA Graduate School.

Interested candidates must meet the following requirements in order to be fully accepted to the program:

- 2.75 GPA required by Graduate School
- Passed the content test or have 12 semester hours in the content area with a GPA of 3.00
- Complete the Educator Preparation Assessment Process.
- After finishing with summer graduate courses, students with a teacher job contract will need to be:
- Enrolled in the fall for EDAC 4320 – supervised Internship I to be completed with a B or better
- Enrolled in the spring for EDAC 4321 – supervised Internship II to be completed with a B or better

## Policy and Advisory Groups

The primary purpose of the University Teacher Education Committee is to recommend policies and procedures related to teacher education.

The Teacher Education Committee is composed of two voting members from each of the six academic colleges, the associate vice president for undergraduate studies (ex-officio) and the executive director for the Region I Education Service Center (ex-officio).

In all regards, the Teacher Education Committee will conform to the rules for standing academic committees as per HOP 3.4.4.

The State Board of Educator Certification Rules (19 Texas Administrative Code, Section 228.20) states that the preparation of educators shall be a “collaborative effort

among accredited public schools and/or private schools, regional education service centers, institutions of higher education, and business and community interests” and “shall be delivered in cooperation with accredited public schools and/or private schools.” It further states that “an advisory committee with members representing each of the above shall assist in the design, delivery, evaluation and major policy decisions of the prepared program.”

In accordance with this rule, the Teacher Education Committee has the responsibility for:

- Establishing a committee composed of personnel from public/private schools, Region I Education Service Center, and business and community representatives to advise the Teacher Education Committee in the design, delivery, evaluation and major policy decisions of educator preparation programs.
- Initiating designing, approving, recommending, implementing and evaluating teacher education programs.
- Developing and recommending policies in regard to admission and retention of students in the teacher education program.
- Reviewing and recommending course offerings in the teaching fields and in the professional certification programs.
- Recommending and coordinating staff development activities.
- Reviewing data and making recommendations regarding TExES scores.
- Discussing issues related to educator certification and TExES.

## ▲ Curriculum and Instruction ▲

### DR. JAMIE CURTS, ACTING DEPARTMENT CHAIR

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### FULL-TIME FACULTY

Almaguer, Isela, Associate Professor  
Curts, Jaime B., Associate Professor  
De León, Leticia, Assistant Professor  
Diaz, Zulmaris, Assistant Professor  
Esquierdo, Jennifer J., Assistant Professor  
Estrada, Verónica L., Associate Professor

Farruggio, Pete, Assistant Professor  
 García, Criselda, Assistant Professor  
 Garza-Reyna, Gina, Lecturer  
 Gómez, Leo, Professor  
 González, Irasema, Lecturer  
 Gonzales, Maria, Lecturer  
 Gonzalez, Angela Maria, Lecturer  
 Guadarrama, Irma, Professor  
 Guerrero, Michael, Associate Professor  
 Hernández, Fernando, Lecturer  
 Irizarry, Richard, Lecturer  
 McBride, John, Professor  
 Medrano, Hilda, Professor  
 Murillo Benjumea, Luz, Assistant Professor  
 Neuman, Jacob, Assistant Professor  
 Ostorga, Alcione, Associate Professor  
 Peña, Carmen, Associate Professor  
 Pérez, Alma, Director of Starr County Upper Level Center  
 Reyes, María Elena, Professor  
 Ruíz-Escalante, Jose, Professor  
 Schall, Janine, Assistant Professor  
 Shirvani, Hossein, Assistant Professor  
 Tevis, Martha, Professor  
 Valdez, Sofia Annette, Lecturer  
 Whitacre, Michael, Assistant Professor  
 Yanes, Martha Jeanne, Associate Professor

**EMERITUS FACULTY**

Gratz, Elizabeth

**▲ BACHELOR OF INTERDISCIPLINARY STUDIES**

**For Elementary Teachers (grade level EC-6)**

In compliance with the Texas Education Code, a Bachelor of Interdisciplinary Studies is offered with certification in the following undergraduate academic specializations:

- Bilingual Generalist EC-6
- Generalist EC-6
- Special Education Generalist EC-6

**▲ TEACHER CERTIFICATION PROGRAMS**

**Core Curriculum Requirements for Teacher Education Certification**

Students pursuing teacher certification must complete an academic major prescribed by the standards for teacher education. Prospective teacher certification students should consult with their major advisors and with the appropriate department in the College of Education.

Students pursuing teacher certification at all certification levels are required to satisfy the University’s core curriculum requirements as specified by the State Board of Education, the Texas Education Agency and the Texas Higher Education Coordinating Board.

**Summary of University**

<b>Core Curriculum Requirements</b>	
Communication	9 hours
• Six hours of freshman English (ENG 1301 and ENG 1302)	
Science and Mathematics	11 hours
• Eight hours of a laboratory science (PSCI 1421 and PSCI 1422)	
• Three hours of college algebra or higher-level mathematics (MATH 1340)	
Humanities	9 hours
• Three hours of sophomore literature (ENG 2XXX)	
• Three hours from the arts (MUS 1307)	
• Three hours of philosophy (PHIL1305)	
Social Sciences	15 hours
• Six hours of American history (HIST 2313 and HIST 2314)	
• Six hours of American and Texas government (POLS 2313 and POLS 2314)	
• Three hours from: Economics (ECON 1301)	
Institutionally Designated Options:	
Computer Literacy	2 hours
• Two hours of computer literacy (CSCI 1201 or CIS 1201)	

**Standard Elementary Certification within the Baccalaureate Interdisciplinary Degree**

In addition to completing the University core curriculum requirements noted above, students must complete the following:

Minimum Academic Specialization (including nine advanced)	18 hours
Interdisciplinary Area (combination of subjects)	42 hours
Professional Development Sequence	24 hours

**Academic Specializations for Elementary Certification Elementary (Grades EC-6) Certification**

The following specializations are available; they require a minimum of 18 hours.

- Bilingual Education
- Early Childhood Education
- Special Education

**Requirements for Academic Specializations**



## in Bilingual, Early Childhood and Special Education

The requirements for the specializations for elementary certification that are offered through the College of Education are shown below.

### Specialization: Bilingual Education (EC-6)

EDBE	3315	The Bilingual Curriculum in the Content Areas
EDBE	3316	The Development of Bilingualism
EDBE	3322	Foundations of Bilingual Education
EDBE	3324	English as a Second Language
EDBE	4304	The Development of Bilingualism
SPAN	3304	Advanced Spanish Composition

### Specialization: Early Childhood (EC-6)

EDEC	4314	Research in Early Childhood
EDEC	4391	Foundations of Early Childhood
EDEC	4392	Acquisition and Conceptualization Processes in Early Childhood
EDEC	4394	Cognitive and Psychomotor Development in Early Childhood
EDEC	4393	Cultural Dimensions
EDBE	4304	Development of Bilingualism

### Specialization: Special Education (EC-12)

SPED	3320	Survey of Exceptionalities
SPED	3321	Inclusion Issues
SPED	3322	Literacy Intervention for Students with Disabilities
SPED	3323	Behavioral Interventions
SPED	3324	Related Services
SPED	3325	Curriculum Based Evaluations

### Elementary Certification: Academic

#### Specialization Bilingual Education

Interdisciplinary Area 42 hours

#### Language Arts:

READ	3323	Reading Acquisition
READ	3325	Cognitive Development and Reading Comprehension
ENG	4321	Fundamentals of Language Development
ENG	3325	Children/Adolescent Literature or
ENG	4326	Language Acquisition
SPAN	3304	Advance Spanish Composition

#### Math/Science:

EMAT	2306	Foundations of Mathematics I
EMAT	2307	Foundations of Mathematics II
EMAT	3308	Foundations of Mathematics III
SCIE	4370	Planet Earth and Its Inhabitants
BIOL	1402	General Biology II
BIOL	2406	Environmental Biology
GEOL	1401	Physical Geology

#### Other:

HIST	3330	A General Survey of the History of Texas
MUS	3311	Essential Elements of Music I
SPED	3321	Inclusion Issues

### Specialization: Bilingual Education

EDBE	3315	The Bilingual Curriculum in the Content Areas
EDBE	3316	The Development of Bilingualism
EDBE	3322	Foundations of Bilingual Education
EDBE	3324	English as a Second Language
EDBE	4304	The Development of Bilingualism
SPAN	3304	Advanced Spanish Composition

### Elementary Certification: Academic

#### Specialization Special Education

Interdisciplinary Area 42hours

#### Reading:

READ	3323	Reading Acquisition
READ	3325	Cognitive Development and Reading Comprehension

#### Language Arts/Communication:

ENG	4321	Fundamentals of Language Learning or
ENG	4326	Language Acquisition or
ENG	3325	Children/Adolescent Literature

#### Mathematics:

EMAT	2306	Foundations of Mathematics I
EMAT	2307	Foundations of Mathematics II
EMAT	3308	Foundations of Mathematics III

#### Science:

BIOL	2403	General Biology
BIOL	2406	Environmental Biology
SCIE	4370	Planet Earth and Its Inhabitants
GEOL	1401	Physical Geology

#### Other:

MUS	3311	Essential Elements of Music I
EDBE	4304	Development of Bilingualism
HIST	3330	A General Survey of the History of Texas

### Specialization: Special Education

SPED	3320	Survey of Exceptionalities
SPED	3321	Inclusion Ideas
SPED	3322	Literacy Intervention for Students with Disabilities
SPED	3323	Behavioral Interventions
SPED	3324	Related Services
SPED	3325	Curriculum Based Evaluations

### Elementary Certification: Academic

Specialization Early Childhood  
Interdisciplinary Area 42 hours

Reading:  
 READ 3323 Reading Acquisition  
 READ 3325 Cognitive Development and Reading Comprehension

Language Arts:  
 ENG 4321 Fundamentals of Language Learning  
 or  
 ENG 3325 Children/Adolescent Literature  
 or  
 ENG 4326 Language Acquisition

Math/Science:  
 EMAT 2306 Foundations of Mathematics I  
 EMAT 2307 Foundations of Mathematics II  
 EMAT 3308 Foundations of Mathematics III  
 BIOL 2403 General Biology  
 BIOL 2406 Environmental Biology  
 GEOL 1401 Physical Geology

Other:  
 HIST 3330 A General Survey of the History of Texas  
 MUS 3311 Essential Elements of Music I  
 EDBE 4304 Development of Bilingualism

Specialization: Early Childhood  
 EDEC 4314 Research in Early Childhood  
 EDEC 4391 Foundations of Early Childhood  
 EDEC 4392 Acquisition and Conceptualization Processes in Early Childhood  
 EDEC 4393 Cultural Dimensions  
 EDEC 4394 Cognitive and Psychomotor Development in Early Childhood  
 EDBE 4304 Development of Bilingualism

**Professional Education  
(Certification Coursework) Elementary**

Bilingual Education: 24 hours  
 EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,  
 EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

Special Education: 24 hours  
 EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,  
 EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

Early Childhood: 24 Hours  
 EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,  
 EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

**Supplement Requirements**

Bilingual and English as a Second Language (ESL) supplements consisting of 9-12 additional hours may be added to a standard teacher certificate.

**Supplement: Bilingual Education**

The bilingual education supplement may be added to a valid standard teacher certificate. The professional development sequence for the supplement consists of:

1. Oral and written proficiency in the language of the target population as measured by examinations approved by the State Education Agency.
  - A. Oral proficiency shall be determined by the Texas Oral Proficiency Test (TOPT) with a passing score of level three.
  - B. Successful completion of TExES/Bilingual Supplemental EC-6.
2. Twelve hours at the graduate or undergraduate level earned after the bachelor's degree as follows:

EDBE 3315	or	EDBE 6335
EDBE 3316	or	EDBE 6350
EDBE 3322	or	EDBE 6322
EDBE 4304	or	EDBE 6351

**Supplement: English as a Second Language (ESL)**

The English as a Second Language (ESL) supplement may be added to a valid standard teacher certificate. The professional development sequence for the ESL endorsement consists of the following 12 hours:

ENG 3319	Introduction to Descriptive Linguistics
ENG 3321	Language and Culture
ENG 4328	Introduction to English as a Second Language
EDBE 3324	English as a Second Language

Students who are completing this supplement as part of their initial teacher certificate should partially fulfill their student teaching requirements with the following course:

EDCI 4310	Directed Teaching-ESL: Internship II
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**▲ CERTIFICATION REQUIREMENTS**

**For Middle School (4-8)**

For the prospective middle school teacher, The University of Texas-Pan American offers bachelor's degrees in various academic disciplines with middle school certification through the College of Education. The core curriculum and major requirements for the various academic disciplines are specified by the departments in this catalog. The College of Education offers middle school certification in the following teaching fields:

- English Language Arts and Reading
- Math
- Science
- Social Studies

**For High School (8-12)**

For the prospective high school teacher, The University of Texas-Pan American offers bachelor's degrees in various

academic disciplines with high school certification through the College of Education. The core curriculum and major requirements for the various academic disciplines are specified by the departments in this catalog. The College of Education offers high school certification in the following teaching fields:

- English
- History
- Life Science
- Physical Science
- Social Studies
- Math
- Dance
- Health

In addition to the core curriculum coursework and the major course requirements, the following requirements apply to students seeking Texas Teacher Certificates:

<b>Professional Development</b>		21 hours
EDHS	4301	Foundations of Education
EDHS	4302	Instructional Planning and Assessment
READ	4351	Developmental Reading in Secondary Schools
EDHS	4303	Instructional Strategies and Classroom Management
EDHS	3305	Instructional Methods for English Language Learners and Learners with Exceptionalities in High Schools
EDHS	4398	Integrated Internship II: 8-12
EDHS	4399	Supervised Internship II: 8-12

### ▲ REQUIREMENTS FOR ALL-LEVEL CERTIFICATES

Standard teacher certificates, all level, are offered in art, kinesiology, special education (minor), Spanish and music. A kinesiology all-level major requires a minor of 24 hours; minors are not required for art and music all-level majors. Specific requirements for each are located in the appropriate departments in this catalog. However, the professional development (18 upper-division hours) sequence for standard teacher certificate all level offered through the College of Education for art, spanish and music is as follows:

EDAL 3301, EDAL 3302, EDAL 3303, EDAL 4303, EDAL 4398, EDAL 4399, EDAL 4395(Art) and EDAL 4396 (Music).

All-level for kinesiology is as follows: EDAL 3301, EDAL 3302, EDAL 3303, EDAK 3370, EDAK 3380, EDA 4390, EDAK 4398, and EDAK 4399.

### Internship II

The College of Education offers the Internship II experience as an important component in the preparation of competent teachers. Prospective teacher preparation students should consult with their program advisors and apply at the College of Education Office of Field Experiences. The

Internship II admission requirements below are subject to change due to new state agency regulations or College of Education/University-approved policy.

### Requirements for Admission to Internship II

#### Semester EC-6 Certification

1. A minimum 2.5 overall GPA on degree plan.
2. A minimum of 2.5 GPA in all core curriculum courses.
3. A 2.5 GPA in all professional education courses.
4. A minimum of C in ENG 1301.
5. A minimum grade of C in MATH 1340, EMAT 2306 and EMAT 2307.
6. Completed minimum of 75 percent of total hours required in the interdisciplinary area with a minimum 2.5 GPA.
7. Satisfactory completion of the following courses in EC-6 Certification Programs: EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333, EDCI 3334, EDCI 3335 READ 3323 and READ 3325 with a minimum GPA of 2.5.
8. Completed minimum of 75 percent of total hours required in academic specialization with a minimum GPA of 2.5.

#### 4-8 Certification

1. Minimum overall GPA of 2.5.
2. A minimum GPA of 2.5 core curriculum required courses completed.
3. ENG 1301 completed with a minimum grade of C.
4. Successful completion of MATH 1340 with a grade of C or better.
5. Completed minimum of 75 percent of total hours required in major teaching field.
6. Minimum of 2.5 GPA in major.
7. Additional requirements as specified by major department.
8. Completed minimum of 75 percent of total hours required in the minor or second teaching field.
9. Minimum of 2.5 GPA in minor.
10. Additional requirements as specified by minor department.
11. 12 in Middle School Education: EDMS 3353, EDMS 3354, EDMS 3305, EDMS 3355
12. 6 hours in Reading: READ 3325, READ 3326

#### 8-12 Certification

1. Minimum overall GPA of 2.5.
2. A minimum GPA of 2.5 core curriculum required courses completed.
3. ENG 1301 completed with a minimum grade of "C."
4. Successful completion of MATH 1340 with a grade of C or better.
5. Completed minimum of 75 percent of total hours required in major teaching field.
6. Minimum of 2.5 GPA in major.
7. Additional requirements as specified by major department.

8. Completed minimum of 75 percent of total hours required in the minor or second teaching field.
9. Minimum of 2.5 GPA in minor.
10. Additional requirements as specified by minor department.
11. 15 hours in Secondary Education: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305 and READ 4351.
12. Minimum of 2.5 grade GPA in professional education.

### All-Level EC-12 Certification

1. A minimum overall GPA of 2.5.
2. A minimum GPS of 2.5 core curriculum required courses completed.
3. ENG 1301 completed with a minimum grade of "C."
4. Successful completion of MATH 1340 with a grade of C or better.
5. A minimum of 2.5 GPA in major.
6. Additional requirements as specified by major department.
7. A minimum of 2.5 GPA in minor.
8. Additional requirements as specified by minor department.
9. 15 hours in secondary education: EDHS(AL) 4301, EDHS(AL) 4302, EDHS(AL) 4307, READ 4351, EDAL 3301, EDAL 3302, EDAL 3303, EDAK 3370, EDAK 3380, EDAK 4390.
10. Minimum of 2.5 GPA in professional education courses.

### Course Descriptions

A listing of courses offered by the College of Education can be found in the Course Descriptions section beginning on page 267.

## ▲ Health and Kinesiology ▲

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**HEALTH**  
Guinn, Robert, Professor  
and Program Coordinator  
Villas, Paul, Professor

### KINESIOLOGY

Anzaldua, Nancy, Lecturer  
Fournier, Kimberly, Assistant Professor  
Garza, Gavino, Lecturer  
Johnson, Randall, Lecturer  
Jorgensen, Layne, Professor and Graduate Coordinator  
McIntyre, John, Lecturer  
Myers, Deborah, Assistant Professor  
Oh, Jung-il, Assistant Professor  
Romero, Zasha, Lecturer  
Ryman, Jeannean, Lecturer  
Sawyer, Mitchell O., Lecturer  
Schmidt, Marcelo, Lecturer  
Trinidad, Mary, Lecturer  
Wang, Lin, Assistant Professor

### ▲ GENERAL OVERVIEW

The Department of Health and Kinesiology offers a bachelor of science degree with majors in health and in kinesiology. The department also offers minors in health and kinesiology. At the graduate level, the Department of Health and Kinesiology offers a master of science degree with a specialization in kinesiology. As part of The University of Texas System Consortium, an online master's degree is offered.

### ▲ MISSION

The mission of the Department of Health and Kinesiology is congruous with that of The University of Texas-Pan American and the College of Education. Specifically, it is to prepare health and kinesiology students to function professionally in a changing and diverse society, to fulfill the core curriculum requirements and to improve the quality of University life through the understanding, delivery and promotion of physical activity in the wellness program.

### ▲ ADMISSION TO PROGRAM

Students must be formally admitted to their respective programs prior to enrolling in 3000- or 4000-level HLTH or KIN courses. Admission criteria is available in the health and kinesiology office located at HPE 1, Room 1.110.

### Teacher Certification

The following plans are offered:

- All-Level Health
- All-Level Kinesiology

## ▲ DEGREE REQUIREMENTS

### Special Core Curriculum Requirements for Bachelor of Science in Health and Kinesiology

Complete the requirements shown in the University core curriculum requirements section on pages 99-101 of this catalog EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown below.

Section B.	Science and Mathematics
Group 1.	Natural Science BIOL 2403 and BIOL 2404 required

### Health Degree Requirements

Health majors should consult with their advisor in the department.

### Health All-Level Major - Certified

Required Courses 18 hours

HLTH	1354	Safety and First Aid
HLTH	2373	Growth, Development and Fitness
HLTH	3371	Drugs, Alcohol and Tobacco
HLTH	3372	Nutrition and Health
HLTH	3373	Human Sexuality
HLTH	4350	Organization of the Health Program

Twelve hours of electives, nine of which must be upper-division courses, excluding HLTH 2352 12 hours.

TOTAL 30 hours

Requires an 18 or 24 hour institutional minor in a certifiable teaching field.

### Teacher Certification in Health

Health major must have a GPA of 2.50 or higher and a C or better in all health courses.

Miscellaneous Electives	11 hours
READ 4351	Internship II: Developmental Reading In Secondary Schools

Minimum three hours of advanced electives

Professional Education	18 hours
EDAL 3301	Internship I: Foundations of All-Level Education
EDAL 3302	Internship I: Human Development, Learning Theory and Assessment
EDAL 3303	Internship I: Instructional Methods for ELLs and Learners with Exceptionalities at All Levels
EDAL 4303	Internship II: Planning and Curricular Development for Grades 8-12
EDAL 4398	Integrated Internship III:

EDAL 4399	Seminar All Level Supervised Internship III: All Level in Health
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Total 120-126 hours

### Health Major (non-certified) — requires a minor.

Required Courses 30 hours  
Thirty total hours in health of which 21 must be advanced, including HLTH 1354 and HLTH 4353.

TOTAL 30 hours

A health major (non-certified) requires a support area of 21 hours from the following, with a minimum of 18 hours advanced:

CRIJ 3303, KIN 3365, MARK 3371, PSY 1310, PSY 3324, REHS 2301, SOCI 3324, SOCW 2314, SOCW 3351, SOCW 4320.

TOTAL 21 hours

Miscellaneous Electives

Nine hours of which three must be advanced 9 hours

TOTAL 120-121 Hours

### Health Minor (non-certified)

Eighteen hours in health, of which six must be advanced. There is no certified minor in health.

## ▲ KINESIOLOGY DEGREE REQUIREMENTS

Kinesiology majors should consult with their advisor in the department.

### Kinesiology (All-level Major) - Certified

Required Courses 36 hours

KIN 1351	Introduction to Kinesiology
KIN 1354	Safety and First Aid (must include CPR Certification)
KIN 2305	Technical Skills for Team Sports
KIN 2310	Outdoor Education
KIN 2315	Technical Skills for Individual Sports
KIN 2320	Movement Arts
KIN 3340	Kinesiology Activities for Elementary and Middle School
KIN 3345	Biomechanics
KIN 3353	Physiology of Exercise
KIN 3365	Tests and Measurements in Kinesiology
KIN 4351	Adapted Kinesiology

## College of Education

Three hours of Advanced KIN elective

Requires an 18 hour institutional minor.\*

\*Cannot repeat hours from core curriculum requirements. The minor must be in a certifiable teaching field.

Miscellaneous Electives 3 hours

READ 4351 Developmental Reading  
in Secondary Schools

### Teacher Certification in Kinesiology

Kinesiology major must have a GPA of 2.50 or higher and a C or better in kinesiology classes. There is also a professional responsibilities component:

1. Health-related fitness assessment
2. First aid and CPR certification
3. Professional membership
4. Service component

Professional Education 24 hours

EDAK 3370 Internship I: Kinesiology in  
Elementary Schools  
EDAK 3380 Internship I: Kinesiology in  
Middle Schools  
EDAK 4390 Internship I: Kinesiology in  
Secondary Schools  
EDAL 3301 Foundations of All-Level  
Education  
EDAL 3302 Human Development, Learning  
Theory and Assessment  
EDAL 3303 Instructional Methods for ELLs  
and Learners with Exceptionalities  
at All Levels  
EDAK 4398 Integrated Internship II:  
Seminar All-Level  
EDAK 4399 Supervised Internship II:  
All-Level in Kinesiology

Total 124 hours

### Student Teaching

Please refer to the student teaching section under the Department of Curriculum and Instruction. In addition, health and kinesiology students must satisfy the following as part of their student teaching requirements:

\*No student is allowed to student teach in the school(s) from which they matriculated, and

\*No student is allowed to student teach under the supervision of an immediate family member.

### Major in Kinesiology (non-certified)

Required Courses 36 hours  
KIN 1351 Introduction to Kinesiology

KIN 1354 Safety and First Aid  
KIN 2305 Team Sports  
KIN 2310 Outdoor Education  
KIN 2315 Individual Sports  
KIN 3340 Kinesiology Activities for  
Elementary and Middle Schools  
KIN 3345 Biomechanics  
KIN 3352 Care, Treatment and Prevention  
of Athletic Injuries  
KIN 3353 Physiology of Exercise  
KIN 3365 Tests and Measurements in  
Kinesiology  
KIN 3395 Motor Learning  
HLTH 3372 Nutrition and Health

Support Area 18 hours

Select one of the following three areas

1. Coaching-Theory of Coaching Courses (6 hours)

KIN 3368 Sports Psychology  
KIN 3370 Strength and Conditioning  
KIN 3344 Sports Officiating  
KIN 4368 Kinesiology Practicum

2. Athletic Training

Kinesiology Advanced Elective (3 hours)

KIN 3370 Strength and Conditioning  
KIN 3354 CPR for Professional Rescuer  
KIN 4321 Therapeutic Modalities  
KIN 4322 Rehab/Therapeutic Modalities  
KIN 4368 Kinesiology Practicum

3. Health Fitness

KIN 3342 Lifestyle Management  
KIN 3346 Lab Meth Health Instruc I  
KIN 3348 Lab Meth Health Instruc II  
KIN 3350 Leadership and Prog Admn  
KIN 3354 CPR for Professional Rescuer  
KIN 4368 Kinesiology Practicum

Miscellaneous Advanced Electives 6 hours

Requires an 18 hour institutional minor 18 hours

TOTAL 121 hours

### Minor in Kinesiology (non-certified)

Professional Kinesiology (Theory Courses) 18 hours

A minimum of six hours advanced.

Kinesiology Activity/Wellness Courses 6 hours

Six hours of activity wellness classes:

KIN 1200 (or another aquatic), plus two two-hour activity/wellness activities, plus KIN 1201.

TOTAL 24 hours

There is no certified minor in kinesiology.

## Athletic Trainer Licensure Program

The Department of Health and Kinesiology and the UT Pan American head athletic trainer provide an avenue for UT Pan American students to secure a Texas State Athletic Trainer Licensure through the Texas Department of Health. An athletic trainer is an allied health care professional primarily concerned with the prevention, recognition, immediate treatment and rehabilitation of injuries incurred in an athletic or sports setting. Athletic trainers are employed in a wide variety of settings including but not limited to interscholastic athletic programs, intercollegiate athletic programs, sports medicine clinics and health clubs.

The requirements for licensure are:

### Curriculum Requirements

BIOL	2403	Anatomy and Physiology
BIOL	2404	Anatomy and Physiology
KIN	3353	Physiology of Exercise
KIN	3345	Biomechanics
KIN	3352	Care, Treatment and Prevention of Athletic Injuries Health - any three hours

### Apprenticeship (Internship) Requirements

1. Scheduled interview with UT Pan American head athletic trainer.
2. Minimum of three academic years (six semesters of fall and spring) under direct supervision of state licensed athletic trainer (UT Pan American head athletic trainer).
3. A minimum of 600 supervised "lab clock hours" each year for a total of 1,800 hours.
4. Enrollment as a full-time student at UT Pan American during each of the three academic years (six semesters).

### Application Requirements for Texas State License Exam

1. Student must request an application from the Texas Department of Health.
2. Student must be within 30 hours of graduation and must have completed at least 1,500 clock hours (five semesters) of apprenticeship.

Texas State License is granted:

1. Once applicant has successfully passed the Texas State License Exam.
2. Once applicant has provided proof of graduation from UT Pan American.
3. Once applicant has all documentation regarding apprenticeship and course requirements in order.
4. Once applicant has paid his/her licensure fee.
5. If applicant has not been convicted of a felony or misdemeanor relating to the duties of an athletic trainer.

## Course Descriptions

A listing of courses offered by the Department of Health and Kinesiology can be found on pages 292 and 296.





**College of  
Health Sciences and Human Services  
2009-11**



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# College of Health Sciences and Human Services

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## ▲ 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, with the assistance and cooperation of regional facilities, is dedicated to providing educational programs necessary to meet the needs for competent health and human service professionals in the Rio Grande Valley and Texas, and the nation.

### Mission

The College of Health Sciences and Human Services supports and facilitates the mission of The University of

Texas-Pan American through academic programs of higher education, research and community service. The college is committed to enhancing the quality of life and health care in the Lower Rio Grande Valley binational border community and region. The faculty espouse a holistic multidisciplinary approach to meeting the educational needs of students and the dynamic health and human services needs of a diverse and multicultural society.

## ▲ ACADEMIC PROGRAMS

The College of Health Sciences and Human Services offers a Bachelor of Science degree in clinical laboratory science, communication sciences and disorders, dietetics, nursing, and rehabilitation services and a Bachelor of Social Work degree. The Department of Rehabilitation offers a minor in addiction studies as well as a minor in deaf studies. The Departments of Communication Sciences and Disorders, Occupational Therapy, Nursing, Physician Assistant Studies, Rehabilitation and Social Work offer master's degrees. A Ph.D. in Rehabilitation Counseling is also available. More information on graduate degrees is available in the Graduate Catalog.

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 criminal background checks. For specific information on these requirements, see the major department, the advisement center or the college Web site.

The faculty of the college provide academic advisement and assistance to students pursuing careers in health sciences and human services. Curricula for programs within the college are structured to provide theory as well as practice-based learning experiences. In order to provide the practice-experience component of the college's programs, the University negotiated affiliation agreements with numerous health/human service/social service facilities in South Texas

# ▲ Clinical Laboratory Science ▲

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**FULL-TIME FACULTY**  
Aguirre, Maria Theresa, Clinical Specialist  
Chandler, Karen, Associate Professor  
Eyambe, George, Associate Professor  
Reyna, Maria Elena, Assistant Professor  
Tijerina, Sandra L., Associate Professor

## ▲ GENERAL OVERVIEW

Clinical laboratory science (medical technology) is a profession in which theoretical knowledge in the fields of biology and chemistry is applied in the analysis of various cells and body fluids. Clinical laboratory scientists, or medical technologists, assist in the diagnosis and treatment of disease conditions through laboratory procedures in hematology, microbiology, immunology, blood banking, clinical chemistry and urinalysis.

The pre-professional curriculum is composed of the University core curriculum requirements plus additional biology and chemistry courses. Admission to the professional portion of the Bachelor of Science in Clinical Laboratory Sciences Program is limited; therefore, students are urged to keep high standards of performance during their pre-professional years. The program is accredited by the National Accreditation Agency for Clinical Laboratory Sciences (NAACLS).\*

### Mission Statement

The Clinical Laboratory Science Program supports and facilitates the mission of The University of Texas-Pan American by providing a quality educational experience which prepares clinical laboratory scientists for leadership roles in a multicultural health care system. It is committed to providing an environment of academic freedom in which students learn from faculty who have expertise

in the profession. Excellence in teaching is enhanced by faculty engaged in research and creative activity as well as professional service to the profession, the University and the local community.

### Program Goals

The Clinical Laboratory Science Program is designed to produce competent and qualified clinical laboratory practitioners to meet the needs of the Rio Grande Valley and the state. It offers the student an opportunity to obtain the knowledge, skills and attitudes necessary to function as competent clinical laboratorians. To these ends, the following goals have been established for the program:

1. Provide a quality education to students enrolled in the Clinical Laboratory Science Program, which will allow them to perform as competent career entry professionals.
2. Provide a flexible curriculum, which meets the needs of the traditional as well as the non-traditional student.
3. Provide a curriculum that presents opportunities for students to develop leadership skills and will enable them to function as an integral part of the health care team.
4. Prepare students to meet the unique challenges of a multicultural border health region.

## ▲ ADMISSION REQUIREMENTS

The Clinical Laboratory Science Program begins in the fall semester. In order to be considered for admission, the student should submit an application by March 31. The Admissions Committee meets in April to consider all applications received by March 31. Applications received after March 31 are considered on a space-available basis. A completed application must include official transcripts and three letters of reference.

Successful completion of a criminal background check is also required for full admission into the Clinical Laboratory Science program. Additional information may be found on the College of Health Sciences and Human Services web site. Students will be required to submit a physical examination form once they are admitted to the program. This must document that they have the required immunizations or proof of immunity including measles, mumps, tetanus/diphtheria, rubella and the hepatitis B vaccine.

### Admission Course Prerequisites

Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

### Other University Requirements

Proficiency in a language other than English will be required at the undergraduate level. The language (non-

English) proficiency equivalent will be six semester credit hours. See advisors for specifics about how this requirement may be met.

\*National Accrediting Agency for Clinical Laboratory Sciences; 5600 N. River Rd, Suite 720; Rosemont, IL 60018; (773) 714-8880; [www.nacls.org](http://www.nacls.org)

#### Science and Mathematics

##### Group 1. Natural Science

Students must select BIOL 2403 and BIOL 2404.

#### Science Support Courses 23 hours

##### Required Courses

BIOL	1401	General Biology
CHEM	1301	
	and 1101	General Chemistry I
CHEM	1302	
	and 1102	General Chemistry II
CHEM	2302	
	and 2102	Organic Chemistry I
CLSC	2429	Clinical Microbiology in Healthcare
MATH	2330	Statistics

Applicants who plan to utilize coursework more than seven years old in the areas of general chemistry or the biological sciences will be required to demonstrate an up-to-date knowledge in these areas. This may be accomplished by either of the following:

- A. Completion of at least one formal course in chemistry and one formal course in the biological sciences within the last five years with a grade of at least C.
- B. One year of relevant experience in the field of clinical laboratory science within the last five years.

#### Other Admission Information

- A. Students should complete all non-clinical laboratory science coursework prior to entering the professional phase of the program. Students who are lacking no more than two non-science prerequisite courses may be considered for admission if they have at least a minimum overall GPA of 3.0. Preference is given to students who have completed all prerequisite coursework.
- B. Applications from international students with foreign transcripts or degrees seeking admission to the program and planning to apply for a degree in clinical laboratory science from The University of Texas-Pan American will be handled in accordance with university policies and must meet all applicable degree requirements.
- C. Readmission to the program is not automatic and is on a space-available basis.

#### Other Requirements

A minimum GPA of 2.0 and a minimum science GPA of 2.0 is required for admission to the program.

#### Alternate Admission Pathways

A student who does not wish to receive a degree from The University of Texas-Pan American, but who wishes to attend the professional portion of the curriculum must meet one of the following requirements:

1. Hold a baccalaureate degree from an accredited institution and have a minimum of 12 semester hours of chemistry including inorganic and organic or biochemistry and 16 semester hours of biology including microbiology and a college-level math course.
2. Hold a foreign baccalaureate degree from an international institution, meet all admission requirements of UT Pan American and have his or her transcript evaluated by agencies acceptable to the National Certification Agencies. This evaluation must show that his or her degree is equivalent to a baccalaureate in the United States with appropriate coursework in biology, chemistry and mathematics.
3. Have completed all pre-professional coursework at their parent institution with 16 semester hours of biology, including a course in microbiology, 12 semester hours of chemistry including inorganic and organic or biochemistry, three semester hours of college-level mathematics; and an affiliation agreement between The University of Texas-Pan American and his/her parent University.

#### Certification Requirements

Certification requires a baccalaureate degree and satisfactory completion of the accredited Clinical Laboratory Science Program.

#### ▲ DEGREE REQUIREMENTS

#### Major in Clinical Laboratory Science

Admission Prerequisite Requirements 66 hours  
See previous page.

Major Course Requirements		57 hours
CLSC	3100	Introduction to Clinical Laboratory Science
CLSC	3310	Hematology I
CLSC	3513	Clinical Immunology and Immunoematology
CLSC	3420	Clinical Chemistry I
CLSC	3530	Clinical Microbiology I
CLSC	4100	Seminar
CLSC	4122	Method Development and Research

CLSC 4303	Medical Laboratory Leadership
CLSC 4411	Clinical Hematology II
CLSC 4314	Advanced Immunohematology
CLSC 4315	Advanced Immunology and Molecular Diagnosis
CLSC 4521	Clinical Chemistry II
CLSC 4631	Clinical Microbiology II
CLSC 4340	Clinical Practicum I
CLSC 4341	Clinical Practicum II
CLSC 4342	Clinical Practicum III
CLSC 4343	Clinical Practicum IV
CLSC 4144	Clinical Practicum V

NOTE: Senior-year courses include clinical practicum work that may not necessarily conform exactly to the University calendar. Professional courses are subject to change prior to the time a student starts the program. Students should see their advisor for the most current information.

### Other Requirements

Students must complete all professional courses with a grade of C or better. Students who receive a D or below in the on-campus professional courses will not be allowed to proceed to clinical practicums until a satisfactory grade of C or better is attained. Re-admission to the program is not automatic and is on a space-available basis.

TOTAL 123 hours

### Course Descriptions

A listing of courses offered by the Clinical Laboratory Science Program can be found on page 238.

## ▲ Communication Sciences and Disorders ▲

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### FULL-TIME FACULTY

Ayala, Kara, Assistant Professor  
Maxfield, Katherine, Associate Professor  
Crutchfield, Ruth, Lecturer  
Mata-Pistokache, Teri, Associate Professor  
Parchman-Gonzalez, Keri, Lecturer  
Salinas, Sonya, Lecturer  
Sibley, Keith, Lecturer  
Wang, Bailey, Associate Professor

### Major in Communication Sciences and Disorders

The Bachelor of Science in communication disorders is a pre-professional degree designed to prepare its graduates for graduate study in one of two professions, speech-language pathology or audiology.

### ▲ REQUIREMENTS FOR ADMISSION TO THE COMMUNICATION SCIENCES AND DISORDERS UNDERGRADUATE PROGRAM

The Communication Sciences and Disorders Undergraduate Program begins every fall semester. Specific program requirements and application may be obtained at <http://www.utpa.edu/dept/commdisorder>.

### Admission Requirements

1. Students must have applied and been accepted to UTPA prior to applying to the Communication Sciences and Disorders Undergraduate Program.
2. A completed application packet for admission to the Communication Sciences and Disorders Undergraduate Program must be submitted on or before a specified date for consideration for subsequent fall admission.

### ▲ DEGREE REQUIREMENTS

Core Curriculum Requirements 43 hours

Major Course Requirements 73 hours  
COMD 2310 Introduction to Speech-Language Pathology\*

\*(COMD 2310 is the ONLY course, in the major, that may be taken without being formally admitted to the Communication Sciences and Disorders Undergraduate Program.)

- |           |  |
|-----------|--|
| COMD 3320 | Phonetics  |
| COMD 3310 | Normal Language Development                                |
| COMD 3315 | Anatomy and Physiology of the Speech and Hearing Mechanism |
| COMD 3330 | Articulation Development                                   |
| COMD 3340 | Audiology I  |
| COMD 3350 | Introduction to Speech Science                             |

COMD	3360	Neuroanatomy and Physiology for Speech, Language, Hearing
COMD	4310	Behavior Management for Speech-Language Pathology
COMD	4330	Audiology (Re) Habilitation
COMD	4350	Clinical Applications
COMD	4360	Language Disorders in Children I
COMD	4365	Functional Speech Disorders
COMD	4370	Professional Report Writing in Speech-Language Pathology
COMD	4380	Clinical Problem Solving
COMD	4390	Principles of Assessment of Speech Language Pathology

#### Supplemental Course Requirements

\* (Supplemental courses may be taken without being formally admitted to the Communication Sciences and Disorders Undergraduate Program.)

COMD	1310	Beginning Sign Language
COMD	1320	Intermediate Sign Language
MATH	2330	Survey of Elementary Statistics
PHIL	2330	Ethics
SOC	1313	Principles of Sociology
ENG	3321	Language and Culture
REHS	3320	Family and Disability
PSCI	1421	Physical Science I

Electives 5 hours

TOTAL 121 hours

#### Course Descriptions

A listing of courses offered by the Department of Communication Sciences and Disorders can be found on page 244.

## ▲ Coordinated Program in Dietetics ▲

**DR. BAHRAM FARAJI**

**PROGRAM COORDINATOR**

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www.utpa.edu/dept/dietetics

**FULL-TIME FACULTY**

Edionwe, Alexander, Associate Professor

Faraji, Bahram (Bob), Professor

Erdem, Orelia, Clinical Specialist

#### ▲ GENERAL OVERVIEW

The Coordinated Program in Dietetics prepares students to successfully complete the national registration examination and be qualified for entry-level positions in administrative, clinical or community dietetics. Graduates will possess additional knowledge and skills that will enable them to work with the specific and unique needs of the local community which is largely Mexican-American, as well as other areas of the country with large Hispanic populations.

The goals of the dietetics program are to 1) prepare competent entry-level registered dietitians to serve the Rio Grande Valley and southern region of the United States, 2) prepare program graduates for graduate-level study and for employment in food- and nutrition-related fields and 3) develop professionals who are committed to lifelong education and involvement in positive wellness-oriented lifestyles.

The accelerated program combines the academic study of dietetics with the opportunity to apply knowledge in a professional setting. Qualified students complete their education in dietetics in a variety of settings during their junior and senior years. Upon successful completion, students earn a Bachelor of Science degree with a major in dietetics. Upon graduation, they are eligible to become an active member of the American Dietetic Association and take the examination to become a Registered Dietitian (RD) and Licensed Dietitian (LD).

The dietetics program is accredited by the American Dietetic Association's Commission on Accreditation for Dietetics Education (CADE).

## ▲ REQUIREMENTS FOR ADMISSION TO THE DIETETICS PROGRAM

### A. Submission of the following:

1. Completed application for admission to the Coordinated Program in Dietetics. Call 956/318-5264 for information.
2. Official transcript showing completion of at least 75 hours with a minimum of 2.7 grade point average to include ENG 1301 and ENG 1302 MATH 2330.

Science Support Courses: BIOL 2403, BIOL 2404, CLSC 2429, CHEM 1301, CHEM 1101, CHEM 1302, CHEM 2302, and CHEM 3303  
Dietetic Core: HRP 2303, DIET 2351 and DIET 2352

NOTE: A minimum GPA of 2.0 with a minimum grade of C in each course is required in the Science Support Courses and Dietetic core courses.

3. Three letters of recommendation.
4. A letter from the applicant stating reason for interest in the dietetics program.
5. Completion of a minimum of 80 hours of work-related experience, either volunteer or paid, in the area of dietetics or food service prior to entrance into the dietetics program. This must be documented and verified by the applicant's employer.

### B. Selection by the Admissions Committee is based upon the following:

1. Completion and submission of the required material by the second Friday in May.
2. Grade point average overall (X4) and in science courses (X6).
3. Evaluation of selected references and criteria.
4. Admission interview.

## Readmission

Readmission is not automatic. Students desiring re-admission must notify the dietetics program in writing at least one semester (or two summer sessions) in advance. Complete information regarding readmission can be obtained in the current Coordinated Program in Dietetics Student Guidebook available in the department.

## Graduation Requirements

1. Complete all courses and practicums with a grade of C or better. Grade of C is 75.0-79.9 percent of maximum possible points.
2. Complete all five practicums with at least 900 hours of supervised practice.
3. Complete a Junior Comprehensive Exam at the end of junior year and a Senior Comprehensive Exam at the end of senior year before graduation with a minimum of 75 percent of possible points.
4. Complete University graduation requirements.
5. Receive Verification Statement for the RD exam.

## Major in Dietetics

Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements section on pages 99-101 of this catalog EXCEPT for the sections, groups or areas listed here, which must be satisfied only as shown below.

### Section B. Science and Mathematics

#### Group 1. Natural Science

Students should select BIOL 2403 and BIOL 2404, CHEM 1301, CHEM 1101 and CHEM 1302. Otherwise, both sequences must be taken as part of the science support courses.

### Section E. Social Sciences

#### Group 3. Other Social Science

Students must select Economics 1301 and Psychology 1310.  
Science Support Courses 13 hours\*

CHEM	1301	General Chemistry I
CHEM	1101	General Chemistry Lab I
CHEM	1302	General Chemistry II
CHEM	2302	Organic Chemistry I
CHEM	3303	Biochemistry

\*If the student completes BIOL 2403 and BIOL 2404 or CHEM 1301, CHEM 1101 and CHEM 1302 as part of the University core curriculum requirements, only 17 additional hours of science support courses are required. The grades for all courses listed will be used in determining compliance with minimum grade and GPA requirements.

Interdisciplinary Support Courses 10 hours

MANA	3361	Principles of Management and Organizational Behavior
ECON	1301	Introduction to Economics
CLSC	2429	Clinical Microbiology in Healthcare

### Admission Prerequisite

Dietetic Core Courses		9 hours
DIET	2351	Introduction to Clinical Nutrition
DIET	2352	Food Preparation
HRP	2303	Medical Terminology

Dietetic Professional Courses 49 hours  
(Enrollment eligibility based on acceptance into the dietetics program.)

First year (Junior)

DIET	3252	Quantity Foods Production
DIET	3253	Quantity Foods Practicum
DIET	3353	Advanced Nutrition
DIET	3354	Food Systems Management
DIET	3655	Food Systems Management Practicum
DIET	3356	Experimental Foods
DIET	3357	Medical Nutrition Therapy I
DIET	3358	Medical Nutrition Therapy II

Second year (Senior)

DIET	4752	Clinical Nutrition Practicum
DIET	4157	Seminar in Dietetics
DIET	4455	Community Nutrition Practicum
DIET	4252	Integrative Seminar in Dietetics
DIET	4356	General Dietetics Practicum
DIET	4257	Research Methods in Dietetics
DIET	4258	Communication Skills in Dietetics
DIET	4359	Community and Life Cycle Nutrition

### Other Requirements

A minimum grade of C is required for all dietetics (DIET) courses (lecture, labs and clinicals) and for all science support courses. Grade of C is 75.0-79.9 percent of possible points.

TOTAL 124 hours

### Course Descriptions

A listing of courses offered by the Coordinated Program in Dietetics can be found on pages 262.

## ▲ Nursing ▲

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### FULL-TIME FACULTY

Bautista, Beatríz, Lecturer

Cabrera, Fernando, Clinical Specialist

Cantú-Cabrera, Juana, Assistant Professor

Díaz, María, Assistant Professor

Flores-Vela, Alma, Lecturer

Fuentes, Lilia, Clinical Specialist

Garza, Viola, Assistant Professor

Guzmán, Isabel (Penny), Clinical Specialist

Herrera-Erdem, Orelia, Clinical Specialist

Huerta, Carolina, Professor

Maville, Janice A., Professor

McGuffin, Martha, Lecturer

Mellen, Graciela Maria, Lecturer

Milan, Cindy L., Associate Professor

Nadeau, Nancy, Lecturer

Nieto, Beatríz, Associate Professor

Otto, Debra, Assistant Professor

Reyna, Edna, Lecturer

Rodríguez, Melinda, Lecturer

Rojas, Dahlia, Lecturer

Sánchez, M. Sandra, Professor

Sullivan, Pamela, Assistant Professor

Villarreal, Velda, Lecturer

Voss, Judy, Lecturer

Williams, Jacquelyn, Clinical Specialist

### EMERITUS FACULTY

Tucker, Barbara

### ▲ GENERAL OVERVIEW

The Department of Nursing offers a Bachelor of Science and a Master of Science in Nursing, both accredited by the Board of Nursing for the state of Texas and the Commission on Collegiate Nursing Education (1 Dupont Circle, NW Suite 530, Washington, D.C. 20036-1120, 202/887-6791).

The nursing department supports the mission of the College of Health Sciences and Human Services through programs that educate individuals to meet the health care needs of a culturally diverse society. These programs facilitate the development of competent practitioners with critical thinking skills to provide holistic nursing care to individuals, families, groups and communities. A commitment to fostering research and service that enhance health promotion, maintenance and restoration is integral to the mission of the nursing department.

### Bachelor of Science in Nursing Program

The Bachelor of Science in Nursing (BSN) Program is generic in nature with an alternate pathway for registered nurses. It is designed to enable students to integrate knowledge from theory and research, high-level skills and concepts of leadership into the practice of professional nursing care of individuals, families and groups. The BSN Program provides a foundation for graduate study.

BSN graduates are eligible to apply to the Texas State Board of Nursing to take the National Council Licensure Examination. After successfully completing this examination, the graduate is issued a license to practice as a registered nurse in the state of Texas.

**DR. SANDY SÁNCHEZ**  
**BSN COORDINATOR**

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### Requirements for Admission to the BSN Program

1. Meet UTPA's admissions requirements.
2. Have a minimum 2.5 grade point average on a 4.0 scale on all prerequisite courses.
3. Complete all prerequisites with a minimum grade of C in each course (see detail on the next page).
4. Pass math quiz (grade of 100).
5. Provide proof of current certification in cardiopulmonary resuscitation (CPR; health care provider).
6. Provide documentation verifying absence of active pulmonary disease.
7. Provide documentation verifying current immunization or immunity status for specified diseases (hepatitis B, measles, mumps, rubella, tetanus/diphtheria, varicella, etc.).
8. Alternate pathway applicants: Be a registered nurse in the state of Texas or have a temporary permit to practice professional nursing in Texas.
9. Submit application to the BSN Program by Oct. 1.
10. Be admitted by the BSN Student Development Committee. After being rank-ordered according to prerequisite GPA, students will be admitted on a space-available basis.

### ▲ PREREQUISITE COURSE REQUIREMENTS FOR ADMISSION

Core Curriculum Requirements 43 hours  
Complete the requirements shown in the University core curriculum requirements section shown on pages 99-101 of this catalog EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown here.

#### Section B. Science and Mathematics

Group 1. Natural Science (8 hours)  
BIOL 2403 and BIOL 2404 must be selected  
(Human Anatomy & Physiology)

Group 2. Mathematics (3 hours)  
MATH 2330 must be selected (Statistics)

#### Section E. Social Science

Group 3. Other Social Science (3 hours)  
ANTH 1323 (from Area 1, Anthropology, Cultural Anthropology)

or

SOCI 1313 (from Area 4, Principles of Sociology) must be selected.

Other Course Requirements 25 hours

Microbiology 4 hours  
General Chemistry 4 hours  
Nutrition 3 hours

Nursing (Generics only) 3 hours  
NURS 2301 Wellness

Psychology 6 hours  
Developmental Psychology/Life Span 3 hours  
Introduction to General Psychology 3 hours

Kinesiology (activity) 2 hours

Health Language (in same language) 3 hours

### BSN Advisement

Current and prospective BSN students must be advised by a BSN advisor every semester.

### Exceptions to Admission Criteria

Students may formally petition the BSN Student Development Committee for exceptions to the admission criteria. Each request will be evaluated on an individual basis.

### Advanced Placement

Alternate Pathway (RN) students may be granted credit for selected BSN courses after approval by the BSN Student Development Committee.



### Computerized Background Checks

UTPA requires ALL BSN students to undergo a computerized criminal background check. In addition, according to the Texas Nurse Practice Act contained in the Texas Occupations Code, the Board of Nursing (BON) may refuse to admit persons to its examinations.

Any individual who has reason to believe that she/he is ineligible for the license may contact the BON at 512/305-7400; [www.bon.state.tx.us](http://www.bon.state.tx.us).

### Professional Liability Insurance

All students enrolled in clinical nursing courses are required to maintain professional liability insurance. Since “blanket” student coverage is billed along with other student fees, RNs who have their own coverage and do not wish to purchase student coverage must provide appropriate documentation to the BSN coordinator.

### Progression Criteria

To continue enrollment in the BSN Program, students must:

1. Maintain at least \$1 million in professional liability insurance.
2. Provide annual documentation verifying absence of active pulmonary disease.
3. Provide documentation verifying current immunization or immunity for selected diseases (hepatitis B, measles, mumps, rubella, tetanus diphtheria, varicella, etc.).
4. Provide annual proof of current certification in CPR (health care provider).
5. Maintain a 2.0 GPA on a 4.0 scale.
6. Achieve a minimum grade of C in each required course. (Any grade below a C is a failing grade.)
7. Satisfactorily complete nursing courses in approved sequence.
8. Alternate Pathway students: Provide evidence of current licensure to practice registered nursing in the state of Texas. Students will not be permitted to continue in clinical courses if a temporary permit expires without a license being issued or if a license to practice registered nursing has expired or been suspended, canceled or revoked.
9. Seek academic advisement each semester regarding program progression.

### Readmission

Readmission into the BSN Program is not guaranteed. After failing (or dropping) a BSN course, the student must apply for readmission, in writing, to the BSN Student Development Committee before continuing with nursing courses. Students applying for readmission will be considered on a space-available basis pending recommendation of the BSN Student Development Committee and the consent of the course faculty. Students must apply by April 1 for summer or fall readmission or October 1 for spring readmission.

A student who has failed (or dropped) a clinical course may petition to be allowed to enroll in nonclinical

courses. Being allowed to do so does not guarantee that the student will be readmitted into the program. Students being readmitted into BSN courses may be required to demonstrate proficiency in select nursing skills (e.g., psychomotor, psychosocial, cognitive, etc.), as determined by course faculty.

Students are generally not allowed readmission after a year's absence from the BSN Program. Students who fail the same BSN course twice are ineligible for readmission into the program.

### Graduation Criteria

1. Achieve a minimum grade of C in each required course.
2. Satisfactorily complete all required courses.
3. Have a 2.0 GPA on a 4.0 scale.
4. File a Degree Plan approved by the BSN coordinator.
5. File an acceptable Application for Degree with the Office of the Registrar on or before the date specified in the University Calendar.
6. Meet UTPA's core curriculum requirements for a bachelor's degree.
7. Pass BSN Readiness Exam.

## Degree Requirements for the Bachelor of Science in Nursing

### Major in Nursing (BSN Degree)

#### Admission Prerequisite Courses

Generic Pathway	68 hours
Alternate Pathway	65 hours*
*NURS 2301 not required	

#### Nursing Core Courses

Generic Pathway	52 hours
NURS 3202, 3209, 3403, 3405, 3408, 3604, 3608, 4601, 4602, 4203, 4404, 4607	

Alternate Pathway	24 hours
NURS 3202, 3403, 3407, 3209, 4203, 4404, 4607 plus	32 hours**

\*\*As approved by BSN Student Development Committee.

#### Designated Electives

Generic Pathway	0 hours
Alternate Pathway	0 hours

### Other Requirements

1. Achieve a minimum grade of C in each required course. (Any grade below C is a failing grade.)
2. Have 2.0 GPA on a 4.0 scale.

The BSN Program has an advanced placement credit option. Please contact the Department of Nursing Office for more information.

**TOTAL** 120 hours (minimum)

#### Semester-by-Semester

Generic Curriculum 52 hours

#### Junior Year

Spring (1) 12 hours

NURS 3202	Pharmacology
NURS 3403	Client Assessment
NURS 3604	Nursing Fundamentals

Summer (2) 4 hours

NURS 3408	Health Promotion and Maintenance
-----------	----------------------------------

#### Across the Life Span

Fall (3) 12 hours

NURS 3405	Mental Health Nursing
NURS 3608	Adult Health I
NURS 3209	Research

#### Senior Year

Spring (4) 12 hours

NURS 4601	Adult Health II
NURS 4602	Family Health Care

Fall (5)		12 hours
NURS 4203	Issues in Nursing	
NURS 4404	Community Health Nursing	
NURS 4607	Leadership in Nursing	

Semester-by-Semester Alternate Streamlined Pathway Curriculum 24 hours

Fall (1) 6 hours

NURS 3407	Professional Mobility
NURS 3209	Research

Spring (2) 6 hours

NURS 3202	Pharmacology
NURS 3403	Client Assessment

Fall (3) 12 hours

NURS 4203	Issues in Nursing
NURS 4404	Community Health Nursing
NURS 4607	Leadership in Nursing

Advanced Placement BSN Alternate Credit Available Pathway (up to 32 SCH) SCH

NURS 3604 Nursing Fundamentals General Ed 65

NURS 3408 Health Promotion and Maintenance Across the Life Span RN Upper-level Credit 32

NURS 3405 Mental Health Nursing 24

NURS 3608 Adult Health I

NURS 4601 Adult Health II

NURS 4602 Family Health Care

**TOTAL** 121

### Course Descriptions

A listing of courses offered by the Department of Nursing can be found on page 319.

## ▲ Rehabilitation ▲

**DR. JEROME FISCHER**

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### FULL-TIME FACULTY

Blankenship, Charlene, Assistant Professor  
and Undergraduate Program Coordinator

Chen, Roy, Assistant Professor

Fischer, Jerome, Professor

Gonzalez, Rene, Lecturer

Guetzow, Judith, Lecturer

Graf, Noreen, Professor

Hansmann, Sandra, Assistant Professor

Marini, Irmo, Professor

and Doctoral Program Coordinator

Miller, Eva, Associate Professor and

Master's Program Coordinator

Reed, Bruce J., Dean and Professor

Reid, Charles, Associate Professor

Rivas, Belinda, Clinical Specialist

Saladin, Shawn, Assistant Professor, Deafness Coordinator

Shefcik, Thomas E., Associate Professor

Silcox, Denise, Lecturer

### ▲ GENERAL OVERVIEW

The University of Texas-Pan American offers a Bachelor of Science degree in rehabilitative services. The program has two primary objectives:

- Preparing individuals to enter a wide range of entry-level

careers involving work with people who have disabilities.

- Preparing students who have the educational background and desire to continue graduate studies in rehabilitation.

Rehabilitation is defined as a comprehensive sequence of services, mutually planned by the person with a disability and the rehabilitation worker, to maximize employability, independence, integration and participation of people with disabilities in the workplace and the community. Total rehabilitation includes physical, mental, economic, familial, social, environmental, personal and vocational goals in life as part of the comprehensive process that is rehabilitation.

The rehabilitation process generally involves three identifiable stages:

1. Medical
2. Physical or technical aid and adjustive services
3. Vocational, social and independent living

In practice, it is found that improvement in the ability to work and to live independently brings about a concurrent adjustment in other areas of an individual's life. Work is a major source of self-esteem and identification.

The undergraduate program at UT Pan American focuses primarily on preparing students to assist individuals during the third phase of the process — vocational, social and independent living — although a basic understanding of the first two phases, and their interrelationships, is essential.

The rehabilitative services student will have an opportunity to learn to help people with disabilities through a series of services designed to conserve, develop or restore the ability of the individual with a disability to become independent in daily living skills and financially through employment.

The undergraduate program at UT Pan American has a special emphasis on the training of bilingual and/or bicultural individuals. The need for such personnel has been demonstrated through feasibility studies conducted since 1982, both in the Rio Grande Valley and nationally.

### ▲ CAREER OPPORTUNITIES

New career opportunities in rehabilitation counseling are emerging rapidly. A student trained in rehabilitative services might seek employment in state vocational rehabilitation agencies, correctional facilities, community mental health programs, vocational evaluation and work adjustment facilities, independent living centers, residential facilities, alcohol and substance abuse programs, private rehabilitation companies and private nonprofit rehabilitation programs such as Easter Seals and Goodwill Industries.

Other potential employers include the Veterans Administration, Social Security Administration, state employment services, public assistance, private personnel and placement companies, vocational advisory services and special disability organizations. In addition, many private industries employ rehabilitation specialists for their personnel and employee assistance programs.

### ▲ ADMISSION REQUIREMENTS

Students seeking admission to the undergraduate program should apply prior to the year in which they intend to be an upper-division major.

Applicants must provide the following to the undergraduate program coordinator by April 1 for fall and November 1 for spring:

1. A completed application form (Application forms are available in Health Sciences and Human Services West Building, Room 1.266.) or at [www.utpa.edu/rehabser](http://www.utpa.edu/rehabser).
2. Two letters of recommendation using the program's recommendation form; at least one must be from a university/college instructor outside of this program.

The recommendation form should be transmitted to the program coordinator directly from the reference source.

3. A current transcript from each college or university attended.

Provide all completed application material to:

The University of Texas-Pan American  
Admissions Committee  
Department of Rehabilitation Services  
Undergraduate Program  
1201 W. University Drive  
Edinburg, TX 78539-2999

Application material will be reviewed by, and a personal interview will be scheduled with, the Admissions Committee. Admission to the Rehabilitation Services Program is competitive and based upon a rating system using the following criteria:

- A. Completion of all application material.
- B. A minimum 2.0 GPA is required for admission.
- C. Evaluation of letters of recommendation.  
Students will be notified as to the outcome of their application prior to the end of the semester in which they apply.

## ▲ DEGREE REQUIREMENTS

### Major in Rehabilitative Services (BS Degree)

#### University Core Curriculum **43 hours**

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

#### Major Requirements For No Concentration and Addiction Studies **51 hours**

REHS	2301	Introduction to Rehabilitation
REHS	2321	Introduction to Addiction Studies
REHS	2331	Psychology of Disability
REHS	3303	Case Management I
REHS	3311	Disability Policy and Independent Living
REHS	3320	Family and Disability
REHS	3325	Medical Aspects of Rehabilitation I
REHS	3330	Medical Aspects of Rehabilitation II
REHS	4301	Vocational Assessment
REHS	4302	Job Placement
REHS	4303	Case Management II
REHS	4310	Rehabilitation Research
REHS	4330	Clinical Topics in Rehabilitation
REHS	4360	Assistive Technology
REHS	4602	Clinical Practicum in Rehabilitation
PSY	4313	Abnormal Psychology

#### Additional Requirements for No Concentration and Addiction Studies **9 hours**

REHS	4355	Multicultural Issues in Human Services
PSY	3337	Development Psychology-Lifespan

Major elective (3 Hours) Select One

REHS	3315	Hearing Disorders and Assistive Technology
REHS	3340	Intermediate Aspects in Addiction Studies
REHS	4315	Psychological and Social Aspects of Deafness
REHS	4340	Clinical Issues in Addiction Studies
REHS	4345	Culture, Family, and Prevention in Addictions
REHS	4350	Special Topics in Rehabilitation

#### Additional Requirements for Addictions Studies Concentration **9 hours**

REHS	3340	Intermediate Aspects in Addiction Studies
REHS	4340	Clinical Issues in Addiction Studies
REHS	4345	Culture, Family, and Prevention in Addictions

#### Major Requirements

**Deaf Studies Concentration**

60 HOURS

REHS 2301	Introduction to Rehabilitation
COMD 1310	Beginning Sign Language
COMD 1320	Intermediate Sign Language
REHS 3303	Case Management I
REHS 3311	Disability Policy and Independent Living
REHS 3320	Family and Disability
REHS 3325	Medical Aspects of Rehabilitation I
REHS 3330	Medical Aspects of Rehabilitation II
REHS 4301	Vocational Assessment
REHS 4302	Job Placement
REHS 4303	Case Management II
REHS 4310	Rehabilitation Research
REHS 4330	Clinical Topics in Rehabilitation
REHS 4360	Assistive Technology
REHS 4602	Clinical Practicum in Rehabilitation
REHS 3315	Hearing Disorders and Assistive Technology
REHS 4315	Psychological and Social Aspects of Deafness
REHS 4335	Sign Language IV

Free Electives for all concentrations 17 hours

TOTAL 120 hours

**Minor in Rehabilitative Services**

18 hours in rehabilitative services, of which 6 hours must be advanced.

**Minor in Addiction Studies**

REHS 2301	Introduction to Rehabilitation
REHS 2321	Introduction to Addiction Studies
REHS 3303	Case Management I
REHS 3340	Intermediate Aspects In Addiction Studies
REHS 4340	Clinical Issues in Addiction Studies
REHS 4345	Culture, Family and Prevention in Addictions

**Course Descriptions**

A listing of courses offered by the Department of Rehabilitation Services can be found on page 339.

**▲ Social Work ▲****DR. HÉCTOR LUÍS DÍAZ**

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[www.utpa.edu/dept/socialwork](http://www.utpa.edu/dept/socialwork)**DR. LYDIA ARIZMENDI**

BSW PROGRAM DIRECTOR

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**ESTELA SOZA GARZA**

FIELD EDUCATION DIRECTOR

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**FULL-TIME FACULTY**

Arizmendi, Lydia González, Associate Professor

Arredondo, Sonja, Lecturer

Barrera, Irán, Assistant Professor

Cavazos, Alonzo, Professor

Díaz, Héctor Luis, Professor

Faver, Catherine Ann, Professor

Feldman, Janis B., Assistant Professor

Gonzalez, John, Assistant Professor

Pittman, Sharon, Associate Professor

Ramírez, Noe, Associate Professor

Rombough, Shirley, Associate Professor

Solis, Raúl H., Assistant Professor

**▲ GENERAL OVERVIEW**

The Department of Social Work offers a Bachelor of Social Work (BSW) degree program accredited by the Council on Social Work Education. The BSW is a professional degree built on a liberal arts foundation with supporting course content in the social and behavioral sciences. Department courses provide basic knowledge of social welfare system, the social work profession and the knowledge necessary for generalist social work practice. Our degree program prepares students to pursue graduate study in social work and related professions.

The department also offers a Master of Science in Social Work, which is detailed in the Graduate Catalog. Students

who complete the BSW may apply for advanced standing in the master's program.

The overall goal of the BSW program is to impart knowledge, values and skills for beginning professional social work practice with special emphasis on the uniqueness of the bilingual/bicultural Texas-Mexico border. The student will have the opportunity to learn the competencies of the entry-level generalist practitioner. These include such functional skills as the problem-solving approach to assessing needs, intervening, evaluating responses and linking client systems to resources and opportunities for change. A student who wishes to major in social work should successfully complete SOCW 1313, Introduction to the Social Work Profession and 30 hours of University core curriculum requirements, that include English 1301, English 1302, and the MATH requirement.

The student must apply for admission into the social work program. A 2.4 GPA is required for entry into the major. Academic advisement is required for all social work major. In addition to 43 hours of general education requirements and 39 hours of social work core courses, the student will take eight hours of advanced or non-advanced electives and 24 hours of upper-division support courses. Students must also complete a 480-hour field internship. Approval for field instruction in social work requires an official degree plan and formal approval of the department's Office of Field Education.

Students in the social work program are eligible for membership in the Social Work Student Association and the National Association of Social Workers (NASW) - Texas Chapter, and local NASW Branch. Upon graduation, a BSW student may be licensed as a social worker (LBSW) under the Texas Professional Social Work Act after passing the Texas licensing exam.

## ▲ DEGREE REQUIREMENTS

### Major in Social Work

University Core Curriculum Requirements 43 hours

Complete the core curriculum requirements shown on pages 99-101 of this catalog except for the sections, groups or areas listed below, which must be satisfied only as shown below.

Social Work Core Courses 39 hours

(30 hours are advanced)

- SOCW 1313 Introduction to the Social Work Profession
- SOCW 2314 The Social Welfare Institution
- SOCW 2375 Statistical Methods
- SOCW 3321 Human Behavior and the Social Environment I
- SOCW 3322 Human Behavior and the Social Environment II
- SOCW 3314 Social Welfare Policy and Programs
- SOCW 3323 Social Work Practice I
- SOCW 4301 Social Work Practice II

- SOCW 4302 Social Work Practice III
- SOCW 4311 Research for the Social Services
- SOCW 4353 Integrative Field Seminar
- SOCW 4619 Field Block Placement

Support Courses 30 hours

Six hours of SPANISH (Non-Native or Native Speaker)

Twelve hours required from the following:

Three hours (choose one from the following two):

- PSY 4313 Abnormal Psychology
- SOCI 4314 Sociology of Deviance

Three hours (choose one from the following three):

- PSY 3337 Developmental Psychology: Lifespan
- PSY 3332 Developmental Psychology: Infancy and Childhood
- PSY 3333 Psychology of Adulthood: Maturity and Old Age

Three hours (choose one from the following two):

- SOCI 4313 American Minorities
- SOCI 4323 The Mexican-American People

Three hours (required):

- SOCI 4352 Social Inequality

Twelve hours of Upper Division Electives:

CRIJ, REHS, SOCW, PSY, SOCI, POLS, or ANTH

General Electives 8 hours

Eight general elective (advanced or non-advanced) hours from any course that is approved by the University.

TOTAL 120 hours

### Course Descriptions

A listing of courses offered by the Department of Social Work can be found on page 346.

## ▲ Cooperative Pharmacy Program ▲

**DR. AMY SCHWARTZ, PROGRAM DIRECTOR**  
 1201 W. University Drive, E-RAHC 1.100.00  
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 Telephone: 956/318-5255  
 Fax: 956/381-0663  
 E-mail: aschwartz@utpa.edu  
 www.utpa.edu/programs/pharmacy

**FULL TIME FACULTY**  
 Aguilar, Lydia, Clinical Assistant Professor  
 Canales, Patricia, Associate Professor  
 Schwartz, Amy, Assistant Professor

### ▲ GENERAL OVERVIEW

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 from the Rio Grande Valley 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 upon successful completion of pharmacy prerequisites and other CPP requirements.

UTPA students who are not admitted into the CPP, yet are interested in pursuing pharmacy as a career, may apply directly to UT Austin College of Pharmacy upon completion of the required pharmacy prerequisites. Please visit the CPP web site for additional information about the profession of pharmacy and links to the other Texas pharmacy programs.

#### Mission

The mission of the Cooperative Pharmacy Program is to enhance the knowledge, health and well-being of the people we serve in concert with the mission, vision and values of

both cooperating campuses of The University of Texas System through the recruitment, training and retention of proficient Doctor of Pharmacy—trained pharmacists. The program will strive to encourage the provision of pharmaceutical care by cultivation of our graduates critical thinking skills and an appreciation for the need for lifelong learning. The program will foster the development of clinical and translational research and clinical pharmacy services with other healthcare providers in the region, state and nation.

### Accreditation

The Commission on Colleges of the Southern Association of Colleges and Schools accredits both The University of Texas-Pan American and The University of Texas at Austin. In addition, the University of Texas at Austin College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education, 20 North Clark Street, Suite 2500, Chicago, IL 60602-5109, 312/664-3575, 800/533-3606; fax: 312/664-4652; Web site: www.acpe-accredit.org.

Only graduates of accredited programs are eligible to sit for the North American Pharmacist Licensure Examination™ (NAPLEX®) and Multistate Pharmacy Jurisprudence Examination® (MPJE®), both of which are required for licensure in the state of Texas.

### Pharmacy Curriculum

The CPP is structured so 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 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 I and	
CHEM	2102	Lab	
CHEM	2303	Organic II and	
CHEM	2103	Lab	
PHYS	1401	General	
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	
3 hours from:			
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			6 hours
Social and Behavioral Sciences			3 hours
Arts and Humanities			3 hours
Total			70 hours

All CPP students will be required to take the Pharmacy College Admission Test (PCAT) prior to matriculating to UT— Austin College of Pharmacy. PCAT score expectations and other additional CPP requirements will be discussed with student upon admission.


### Admission to the Cooperative Pharmacy Program

Please refer to the CPP Web site for admissions requirements and application materials. The CPP Web site is easily accessible through the College of Health Sciences and Human Services Website at [www.utpa.edu/HSHS](http://www.utpa.edu/HSHS).

The CPP Web site also contains faculty and staff contact information along with other resources.



**S**  
*&*  
**E**



**College of  
Science and Engineering  
2009-11**

# College of Science and Engineering

**DR. EDWIN LEMASTER, DEAN**

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## ▲ GENERAL OVERVIEW

The College of Science and Engineering consists of the departments of Biology, Chemistry, Computer Science, Electrical Engineering, Manufacturing Engineering, Mechanical Engineering, Mathematics, and Physics and Geology.

## ▲ ACADEMIC PROGRAMS

The college offers the Bachelor of Science in biology, chemistry, computer science, computer engineering, electrical engineering, manufacturing engineering, mathematics, applied mathematics, mechanical engineering, physics, environmental science, and Bachelor of Science in interdisciplinary studies degrees in middle school mathematics and middle school science.

Students may minor in biology, chemistry, biochemistry, computer science, electrical engineering, elementary mathematics, geology, manufacturing engineering, mathematics, mechanical engineering/thermal, middle school mathematics, physical science, and physics and statistics. Secondary certification is available in life sciences and mathematics, and middle school teacher certification is available in mathematics and middle school science.

Also included in the biology and chemistry departments are programs for pre-dental, premedical, and pre-optometry students. Chemistry also has a plan of study for pre-pharmacy students.

At the graduate level, students can earn master's degrees in biology, chemistry, computer science, electrical engineering, engineering management, information technology, manufacturing engineering, mechanical engineering, mathematical sciences or mathematics teaching. More information on master's degrees is available in the Graduate Catalog.

The College of Science and Engineering provides several options to satisfy the University core curriculum requirements in science, mathematics and computer literacy.

New state-of-the-art facilities house the departments

of biology, chemistry, mechanical engineering, electrical engineering, manufacturing engineering and computer science.

## ▲ Overview

The School of Engineering and Computer Science is an organization within the College of Science and Engineering that groups together four of the eight academic departments in the college. The school is made up of three engineering departments: electrical, manufacturing and mechanical engineering plus the computer science department. The school is headed by an associate dean and director who oversee the academic program development, the accreditation processes and the effective interactions with industry for the departments within the school. There is an external industry advisory council for computer science and also an engineering advisory council that provide advice on program development, evaluation of our placement processes for graduates and general feedback on the preparation of our students for jobs in industry or government facilities.

## ▲ ACADEMIC PROGRAMS

Each of the four departments in the School of Engineering and Computer Science offers the bachelor's and the master's degree in the discipline. The graduates of these four departments are among the most sought-after University graduates and command the highest starting salaries for bachelor's degrees, according to a recent survey of the National Association of Colleges and Employers.

All four departments share the new Engineering Building that contains more than \$7 million of teaching and research equipment. More than 63 percent of the funded research in the College of Science and Engineering resides in the School of Engineering and Computer Science. The enrollment of majors in the school is about 1,400 and makes up about half the total enrollment of the college.

**DR. MIGUEL GONZALEZ, ASSOCIATE DEAN**

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Web site: [www.utpa.edu/colleges/cose.cfm](http://www.utpa.edu/colleges/cose.cfm)

## ▲ SPECIAL PROGRAMS IN MEDICINE AND DENTISTRY

The Department of Biology houses a Special Programs Office (SCIE Bldg., Room 1.352) which administers

several cooperative programs in premedical and pre-dental education. These programs are designed to provide a pipeline of highly competitive South Texas students into medical and dental school. Each program requires a separate application which must be filed with the Special Programs Office. Application deadlines vary depending on the program with several programs requiring an application as a high school senior. Please contact the special programs coordinator at 956/316-5216 or stop by the Special Programs Office for applications and additional information. Students accepted into these programs hold a guarantee of acceptance to the partner medical/dental school provided specific program requirements are met. These requirements generally include maintaining a specific overall and science grade point average and earning a specific minimal score on the required standardized test. There may be additional program opportunities and requirements depending on the specific program. The following programs are available through the Special Programs Office:

### Programs in Medicine:

- Joint Admission Medical Program with the State of Texas Medical Schools
- Premedical Honors College with Baylor College of Medicine
- Early Medical School Acceptance Program with The University of Texas Medical Branch at Galveston
- Facilitated Admissions for South Texas Scholars with The University of Texas Health Science Center at San Antonio School of Medicine

### Programs in Dentistry:

- Early Dental School Acceptance Program with The University of Texas Dental Branch at Houston
- Dental Early Acceptance Program with The University of Texas Health Science Center at San Antonio Dental School
- 3-4 and 4-4 Dual Degree Program with Baylor College of Dentistry

## ▲ Biology ▲

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### FULL-TIME FACULTY

Brush, Timothy, Professor  
 Cadena, Maria, Senior Lecturer  
 De La Pena, Antonio, Lecturer  
 Dearth, Robert, Assistant Professor  
 DeYoe, Hudson, Associate Professor  
 Dirrigl, Frank, Assistant Lecturer  
 Edwards, Robert J., Professor  
 Egle, Ardath L., Lecturer  
 Farooqui, Mohammed Y. H., Professor  
 Faulkes, Zen, Assistant Professor  
 Feria, Teresa Patricia, Assistant Professor  
 Fredensborg, Brian, Assistant Professor  
 Gunn, Bonnie, Lecturer  
 Gunn, Scott J., Professor  
 Judd, Frank W., Research Professor  
 Kuang, Anxiu, Associate Professor  
 Lieman, Jonathon, Assistant Professor  
 Little, Christopher, Assistant Professor  
 Lonard, Robert I., Research Professor  
 Lowe, Kristine, Assistant Professor  
 Materon, Luis A., Associate Professor  
 McDonald, John, Assistant Professor  
 Persans, Michael W., Associate Professor  
 Summy, Kenneth R., Associate Professor  
 Terry, Matthew, Assistant Professor  
 Vitek, Christopher, Assistant Professor  
 Wedig, Cindy M., Lecturer  
 Zaidan, Frederic III, Assistant Professor

### EMERITUS FACULTY

Allison, Terry

### ▲ GENERAL OVERVIEW

The Department of Biology offers a major leading to a Bachelor of Science degree and a minor in biology. Biology students may elect a curriculum for a major in biology or biology with certification in 8-12 life science.

The department also offers study beyond the bachelor's degree leading to a Master of Science in biology. A limited number of teaching assistantships are usually available.

Interested persons should consult the Graduate Catalog or the chair of the Department of Biology.

NOTE: Students are typically expected to furnish their own transportation for laboratory sessions and field work.

### ▲ DEGREE REQUIREMENTS

#### Major in Biology

University Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog, using CHEM 1301, 1101, 1302, and 1102 to satisfy the eight hours of natural science requirement.

Core Courses 12 hours

BIOL	1401	General Biology
		or
BIOL	1487	General Biology (Honors)
BIOL	1402	General Biology
		or
BIOL	1488	General Biology (Honors)
BIOL	4100	Biology Seminar
BIOL	3302	Biological Writing

Designated Electives 22 hours

Select one course from each of the following areas: molecular biology, cellular biology, microbiology or biotechnology

BIOL	3401	General Microbiology
BIOL	3403	Medical Microbiology and Immunology
BIOL	3412	Cell Biology
BIOL	3415	Introduction to Molecular Biology
BIOL	4404	General Virology
BIOL	4418	Electron Microscopy
BIOL	4420	Biotechnology

#### Genetics or Biological Evolution

BIOL	3301	Biological Evolution
BIOL	3413	Genetics
BIOL	4317	Disease Epidemiology
BIOL	4330	Molecular Evolution
BIOL	4417	Bacterial Genetics

#### Developmental or Morphological Biology

BIOL	2401	Vertebrate Zoology
BIOL	2402	Comparative Vertebrate Anatomy

BIOL	3406	Developmental Mechanisms
BIOL	3405	Histology
BIOL	3407	Comparative Embryology
BIOL	3408	Plant Morphology

#### Organismal or Environmental Biology

BIOL	2406	Environmental Biology
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BIOL	3409	Ecology
BIOL	3414	Invertebrate Zoology
BIOL	4303	Mammalogy
BIOL	4304	Ichthyology
BIOL	4409	Herpetology
BIOL	4414	Plant Taxonomy
BIOL	4318	Ethnobotany
BIOL	4319	Medical Entomology
BIOL	4402	Marine Zoology
BIOL	4403	Introduction to Remote Sensing Technology
BIOL	4406	Mycology
BIOL	4407	Animal Parasitology
BIOL	4408	Plant Pathology
BIOL	4410	Marine Botany
BIOL	4412	Ornithology
BIOL	4415	Entomology
BIOL	4416	Environmental Toxicology
BIOL	4419	Aquatic Entomology
BIOL	4424	Microbial Ecology
BIOL	4426	Marine Ecology

#### Physiology

BIOL	2403	Anatomy and Physiology
BIOL	2404	Anatomy and Physiology
BIOL	3310	Neurobiology
BIOL	3411	Mammalian Physiology
BIOL	4405	Plant Physiology
BIOL	4411	Ecological Physiology of Animals
BIOL	4422	Neurobiology Methods

Select additional biology courses to complete 32 hours in biology, of which 22 must be advanced.

#### Other Requirements

Where appropriate, the following requirements may also be used to satisfy University core curriculum requirements.

#### Chemistry

Complete all of the following:

CHEM	2302/2102	Organic Chemistry I, Organic Chemistry Lab I Statistics
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Complete three hours from the following:

MATH	2330	Elementary Statistics and Probability
		or
STAT	2330	Survey of Elementary Statistics

#### Other Science

PHYS 1401 and PHYS 1402 or GEOL 1401 and GEOL 1402 are recommended, but not required.

#### Minimum GPA Requirements

A minimum GPA of 2.5 in the required hours for both the

major and minor fields is required. A minimum GPA of 2.5 is required for pre-dental, premedical and pre-optometry majors.

### Pre-Dental/Premedical/Pre-Optometry

Biology majors interested in attending dental, medical or optometry school are advised to include the following suggested and required courses in their major to maximize their potential for success. A minor in chemistry is suggested for all pre-professional students. Students should check with the health professions advisor at 956/381-3540 for updated requirements.

Pre-dental students are required to complete BIOL 1401, BIOL 1402, CHEM 1101/1301, CHEM 1102/1302, CHEM 2102/2302, CHEM 2130/2303, and PHYS 1401/1402. The students must complete a minimum of 90 hours and take the Dental Admissions Test (DAT) to apply to Texas dental schools. CHEM 3303 is required by U.T. Dental Branch in Houston and is highly suggested by the other dental schools. There is no specific mathematics requirement beyond the biology core requirements.

Premedical students are required to complete BIOL 1401, BIOL 1402, CHEM 1101/1301, CHEM 1102/1302, CHEM 2102/2302, CHEM 2130/2303, PHYS 1401 and PHYS 1402. The students must complete a minimum of 90 hours and take the Medical College Admissions Test (MCAT) in order to apply to Texas medical schools. CHEM 3303, BIOL 2402 and PSY 1310 are suggested by the medical schools. Either MATH 1401 or MATH/STAT 2330 is required for acceptance into medical school, however completion of both courses is suggested.

Pre-optometry students must complete a bachelor's degree prior to entering the University of Houston College of Optometry (some out of state schools require only 90 hours). Required coursework to enter optometry school includes: BIOL 1401, BIOL 1402, BIOL 2403, BIOL 2404, BIOL 3401, BIO 3411, CHEM 1101/1301, CHEM 1102/1302, CHEM 2102/2302, CHEM 2130/2303, CHEM 3303, MATH 1401, MATH/STAT 2330, PHYS 1401, PHYS 1402 and PSY 1310. Students must take the Optometry Admissions Test (OAT) in order to apply to optometry school.

Pre-dental, premedical and pre-optometry students who have completed a minimum of 90 hours and the general core curriculum requirements at UTPA may apply for a Bachelor of Science degree after completion of two years in an accredited college of medicine, dentistry or optometry, with grades acceptable for transfer to UT Pan American. The hours accepted will be credited toward a major and minor in biology or chemistry.

### Major in Life Sciences with Teacher Certification

Thirty-six hours are required, 21 of which must be advanced.

## Teacher Certification Programs and Requirements

Admission to College of Education (COE) teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information from the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information at [www.utpa.edu/colleges/coe/studentsservices](http://www.utpa.edu/colleges/coe/studentsservices).

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

University Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog, using CHEM 1301, 1101, 1302, and 1102 to satisfy the eight hours of natural science requirement.

Core Courses 12 hours

BIOL	1401	General Biology or
BIOL	1487	General Biology (Honors)
BIOL	1402	General Biology or
BIOL	1488	General Biology (Honors)
BIOL	4100	Biology Seminar
BIOL	4315	Inquiry-Based Science

Designated Electives 24 hours

Select at least three hours from each of the following areas:		
molecular biology or cellular biology		
BIOL	3412	Cell Biology
BIOL	3415	Introduction to Molecular Biology
BIOL	4404	General Virology
BIOL	4404	Virology
BIOL	4416	Environmental Toxicology
BIOL	4420	Biotechnology

Genetics or Biological Evolution

BIOL	3301	Biological Evolution
BIOL	3413	Genetics

Environmental Biology

BIOL	2305	Environmental Biology
BIOL	3409	Ecology
BIOL	4426	Marine Ecology

Zoology

BIOL	3310	Neurobiology
BIOL	3405	Histology
BIOL	3407	Comparative Embryology
BIOL	3414	Invertebrate Zoology
BIOL	4303	Mammalogy

BIOL	4304	Ichthyology
BIOL	4407	Animal Parasitology
BIOL	4409	Herpetology
BIOL	4402	Marine Zoology
BIOL	4412	Ornithology
BIOL	4415	Entomology
BIOL	4419	Aquatic Entomology

**Botany**

BIOL	3408	Plant Morphology
BIOL	4405	Plant Physiology
BIOL	3410	A Survey of the Plant Kingdom
BIOL	4411	Ecological Physiology
BIOL	4414	Plant Taxonomy
BIOL	4318	Ethnobotany
BIOL	4406	Mycology
BIOL	4408	Plant Pathology
BIOL	4410	Marine Botany
BIOL	4418	Electron Microscopy
BIOL	4424	Microbial Ecology

**Prokaryotic Biology**

BIOL	3401	General Microbiology
BIOL	3403	Medical Microbiology and Immunology
BIOL	4417	Bacterial Genetics
BIOL	4424	Microbial Ecology
BIOL	4317	Disease Epidemiology

**Bachelor of Interdisciplinary Studies  
Science 4-8 Certification**

**Teacher Certification Programs and Requirements**

Admission to College of Education (COE) teacher education programs is required for all undergraduate students seeking teacher certification. Students following middle school certification degree plans (grades 4-8) should consult with their advisor in the department in which their degree is offered. They should also seek information from the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information at [www.utpa.edu/colleges/coe/studentservices](http://www.utpa.edu/colleges/coe/studentservices).

The professional education courses for middle school (4-8) certification include the following: EDMS 3353, EDMS 3354, READ 3325, EDMS 3305, EDMS 3355, READ 3326, EDMS 4398 and EDMS 4399.

University Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog, using PSCI 1421 and 1422 to satisfy the 8 hours of natural science requirement.

Middle School Content 50 hours/24adv.

ASTR	1401	General Astronomy
BIOL	1401	General Biology

BIOL	1402	General Biology
BIOL	3301	Evolution
BIOL	3409	Ecology
BIOL	2305	Environmental Biology
CHEM	1301	General Chemistry I
CHEM	1101	General Chemistry Lab I
GEOG	2313	Principles of Physical Geography
GEOL	1401	Physical Geology
GEOL	3401	Geomorphology
GEOL	3403	Oceanography
PHYS	3308 or 3309	Introduction to Nanotechnology or Introduction to Medical Imaging
PSCI	1421	Physical Science (from General Ed)
PSCI	1422	Physical Science (from General Ed)
SCIE	4240	Capstone Course
SCIE	4360	Applications of the Natural Sciences for Teachers
SCIE	4370	Planet Earth and its Inhabitants

**Professional Development 15 hours**

EDMS	3353	Young Adolescent Development and Learning
EDMS	3354	Middle School Curriculum Development and Assessment
EDMS	3305	Instructional Methods for English Language Learners and Learners with Exceptionalities in Middle Schools
EDMS	3355	Instructional Technology Methods and Classroom Management for Middle School Classrooms
EDMS	4398	Integrated Internship II: Seminar - Middle School

**Additional Requirements 12 hours**

READ	3326	Reading Across the Curriculum Content Areas
READ	3325	Cognitive Development and Reading Comprehension
EMAT	2306	Foundations of Mathematics I
EMAT	2307	Foundations of Mathematics II

**Miscellaneous Requirements 6 hours**

MMAT	3315	Probability and Statistics
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**Minor in Biology**

Requires 18 hours in biology, of which six hours must be advanced.

**Course Descriptions**

A listing of courses offered by the Department of Biology can be found on page 228.

# ▲ ENVIRONMENTAL SCIENCE ▲

**Dr. Robert J. Edwards, Director**

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## ▲ GENERAL OVERVIEW

The interdisciplinary Bachelor of Science program in Environmental Science provides students with a broad foundation in the sciences and specialized knowledge in environmental biology, chemistry and geology. The program prepares students for careers in government, consulting, and industry as well as entry into graduate school. Employment opportunities include state and federal agencies charged with monitoring and managing the environment, environmental consulting firms, and industry positions in air and emissions monitoring, pollution prevention and remediation, and safety and health. An especially effective and marketable skill developed in this program is the use of geographic information systems and remote sensing techniques, which allow scientists and planners to map, analyze, and predict environmental scenarios.

## ▲ DEGREE REQUIREMENTS

### Major in Environmental Science

University core Curriculum Requirements 43 hours

Complete the requirements shown in the core curriculum requirements section on pages 99-101 of this catalog EXCEPT for the following sections, groups or areas listed, which must be satisfied only as shown.

Natural Science and Mathematics  
MATH 1401 Calculus

#### Core Courses

BIOL	1401	General Biology I
		or
BIOL	1487	General Biology I (Honors)
BIOL	1402	General Biology II
		or
BIOL	1488	General Biology II (Honors)
BIOL	3406	Conservation Biology
CHEM	1301	General Chemistry I

CHEM	1101	General Chemistry I Lab
CHEM	1302	General Chemistry II
CHEM	1102	General Chemistry II Lab
GEOL	1401	Physical Geology
GEOL	1402	Historical Geology
PHYS	1401	General Physics I
PHYS	1402	General Physics II
MATH	1401	Calculus I
MATH	2330	Elementary Statistics and Probability
ENVS	3400	Environmental Science and Public Policy
ENVS	3401	Environmental Regulations and Impact Analysis

Designated Electives 21 hours  
Select a minimum of 21 hours from the following list of courses

BIOL	2305	Environmental Biology
BIOL	3409	Ecology
BIOL	4403	Introduction to Remote Sensing Technology
BIOL	4416	Environmental Toxicology
CHEM	2101	Analytical Chemistry Lab
CHEM	2301	Analytical Chemistry
CHEM	4104	Instrumental Analysis Lab
CHEM	4304	Instrumental Analysis
CHEM	4401	Environmental Chemistry
GEOL	3308	Introduction to Geographic Information Systems
GEOL	4302	Environmental Geology
GEOL	4408	Application of Geographic Information Systems

Students are required to select electives that will bring their total number of advanced hours to 51 and total hours for the completion of their degree to 120.

### Minimum GPA Requirements

A minimum GPA of 2.5 in the required hours for the major is required.

### Course Descriptions

A listing of courses can be found under the individual department listings.

# ▲ CHEMISTRY ▲

Dr. Hassan Ahmad, Department Chair  
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 1201 W. University Drive  
 Edinburg, TX 78539-2999  
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 Fax: 956/384-5006  
 E-mail: ahmadh@utpa.edu  
 Web site: www.utpa.edu/dept/chemistry

## FULL-TIME FACULTY

Ahmad, Hassan, Professor, Biochemistry  
 Banik, Bimal, Professor,  
 Organic Chemistry  
 Bhat, Narayan, Professor, Organic Chemistry  
 Bullard, James, Assistant Professor  
 DeLassus, Phillip, Professor,  
 Physical Chemistry  
 Diaz, Sylvia, Lecturer  
 Gutierrez-Gonzales, Jose Juan,  
 Assistant Professor, Organic Chemistry  
 Han, Aijie, Assistant Professor  
 Physical Chemistry  
 Ibrahim, Elamin, Associate Professor,  
 Analytical Chemistry  
 Macossay-Torres, Javier, Assistant Professor,  
 Organic Chemistry  
 Mondal, Jalal U., Professor, Inorganic Chemistry  
 Parsons, Jason, Assistant Professor  
 Rampersad-Ammons, Joanne,  
 Assistant Professor, Biochemistry  
 Smith, Kenneth C., Assistant Professor,  
 Chemical Education  
 Villarreal, John R., Professor, Physical Chemistry  
 Whelan, Thomas, Associate Professor, Chemistry

## EMERITUS FACULTY

Baca, Ernest

## ▲ GENERAL OVERVIEW

The Department of Chemistry offers a major leading to a Bachelor of Science degree, certified by the American Chemical Society, and a minor in chemistry. The department also offers programs of study for premedical and pre-dental studies, each leading to a Bachelor of Science degree in chemistry. In addition, the department offers plans of study for pre-pharmacy and teacher certification in chemistry.

The Department of Chemistry offers undergraduate research projects to highly motivated chemistry majors interested in conducting individual research under the supervision of a faculty member. Such projects offer students

the opportunity to obtain knowledge of research methods in a specialized area and proceed to graduate school.

All new students who intend to major in chemistry should schedule an appointment with a faculty advisor within the department. Students are encouraged to consult with their faculty advisors regarding the degree requirements needed to satisfy their professional goals.

## Mission

The Department of Chemistry is committed to the mission of providing quality education in the process of preparing students for graduate work or careers in chemistry and the biomedical sciences. The department strives to fulfill its mission by offering a program that leads to an undergraduate major or minor in chemistry. In addition, the department prepares students for admission to schools of dentistry, pharmacy and medicine. The department also offers a program that leads to teacher certification. The chemical curriculum is designed to introduce students to the fundamental fields of chemistry and provides opportunities for chemical research.

The department is committed to engaging in its activities of teaching, research and professional service in an environment of academic freedom.

The chemistry department at The University of Texas-Pan American provides an excellent program in helping the University fulfill its responsibility of providing high quality academic programs for the people of this region and the state of Texas.

## ▲ DEGREE REQUIREMENTS

### Major in Chemistry

University Core Curriculum Requirements 43 hours

Complete the requirements shown in the university core curriculum requirements section on pages 99-101 of this catalog EXCEPT for the following sections, groups or areas listed, which must be satisfied only as shown.

Natural Science and Mathematics		
CHEM	1301	General Chemistry I
CHEM	1101	General Chemistry Lab I
CHEM	1302	General Chemistry II
CHEM	1102	General Chemistry Lab II
MATH	1460	Calculus (only 3 semester credit hours will be applied to the math core requirement)

Major Course Requirements 32 hours  
 Chemistry Core Courses

CHEM	2301	Analytical Chemistry
CHEM	2101	Analytical Chemistry Lab
CHEM	2302	Organic Chemistry I
CHEM	2102	Organic Chemistry Lab I
CHEM	2303	Organic Chemistry II



CHEM	2103	Organic Chemistry Lab II
CHEM	3301	Inorganic Chemistry
CHEM	3202	Inorganic Chemistry Lab
CHEM	3103	Biochemistry Lab
CHEM	3303	Biochemistry
CHEM	3304	Physical Chemistry I
CHEM	3104	Physical Chemistry Lab I
CHEM	3305	Physical Chemistry II
CHEM	3105	Physical Chemistry Lab II
CHEM	4101	Chemistry Seminar
CHEM	4201	Chemistry Problems I
CHEM	4304	Instrumental Analysis
CHEM	4104	Instrumental Analysis Lab
CHEM	4105	Chemistry Capstone

#### Designated Electives in Chemistry

In addition to the major course requirements shown above, the Department of Chemistry offers the following elective courses: (These may be used to help satisfy the college requirement of 51 advanced hours or to acquire greater depth in a specific area of chemistry.)

CHEM	3306	Polymer Science and Engineering
CHEM	4202	Chemistry Problems II
CHEM	4301	Advanced Inorganic Chemistry
CHEM	4302	Advanced Biochemistry
CHEM	4303	Advanced Organic Chemistry
CHEM	4378	Special Topics in Chemistry

#### Other Course Requirements 16 hours

MATH	1460	Calculus I (only one semester credit hour applies to this area; the other three apply to the core)
MATH	1470	Calculus II
PHYS	1401	General Physics
PHYS	1402	General Physics

**TOTAL** 120 hours

Students are required to select electives that will bring their total number of advanced hours to 51 and the total number of hours for the completion of their degree to 120.

NOTE: The Department of Chemistry allows students to receive credits for courses in the curriculum if proficiency is demonstrated in these courses by advanced placement exams such as CEEB or CLEP. Contact the UT Pan American Testing Center for information on advanced placement tests.

#### Minimum GPA Requirements

A minimum GPA of 2.0 is required for both major and minor fields.

#### Pre-Dental and Premedical

Chemistry majors in pre-dental and premedical programs are required to complete 18 hours of biology of which six hours must be advanced.

#### Teacher Certification in Chemistry

Teacher Certification Programs and Requirements  
Admission to College of Education (COE) teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information from the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/studentsservices>.

The professional education courses for high school (8-12) certification include the following: EDHS 4301, EDHS 4302, EDHS 4303, EDHS 3305, READ 4351, EDHS 4398 and EDHS 4399.

#### Pre-Pharmacy

Students are required to complete the following courses in their freshman and sophomore years:

Freshman Year: ENG 1301, ENG 1302; CHEM 1301, CHEM 1101, CHEM 1302, CHEM 1102; BIOL 1401, BIOL 1402; MATH 1401; HIST 2313, HIST 2314;

Sophomore Year: English (sophomore literature) six hours; CHEM 2302, CHEM 2303, CHEM 2102, CHEM 2103; MATH 2330; PHYS 1401; POLS 2313, POLS 2314.

NOTE: The University of Texas at Austin requires one semester of freshman English and one of sophomore English. BIOL 3401 is required by the University of Houston and UT Austin, while Texas Southern University requires BIOL 2402. The University of Houston also requires COMM 1303, PSY 1310, three hours of social science electives, and six hours of cultural heritage electives, while UT Austin requires six hours of electives. Texas Southern University requires one hour of medical terminology and a three-hour elective in philosophy, music, sociology or psychology. Texas Tech University offers only the Pharm.D. degree. The prerequisites include COMM 1303, ECO 1301, PHYS 1402 and a minimum of 15 hours of electives in the humanities and social sciences. See the faculty advisor in the Department of Chemistry for more information, since curricula at other institutions may vary.

#### Minor in Chemistry

Requires 18 hours of chemistry of which six must be advanced.

#### Minor in Biochemistry

Requires 21 hours of CHEM courses of which nine hours must be advanced.

Required courses	12 hours
CHEM 1301	General Chemistry I
CHEM 1101	General Chemistry I Lab
CHEM 1302	General Chemistry II
CHEM 1102	General Chemistry II Lab
CHEM 2302	Organic Chemistry I

CHEM 2102 Organic Chemistry I Lab

Advanced Biochemistry courses 9 hours

CHEM 3303 Biochemistry  
CHEM 4302 Advanced Biochemistry

Choose from:

CHEM 3101 Biochemistry Lab  
*and*  
CHEM 4203 Advanced Biochemistry Lab  
*or*  
CHEM 4306 Special Topics in

Biochemistry

**Course Descriptions**

A listing of courses offered by the Department of Chemistry can be found on page 233.

**▲ COMPUTER ENGINEERING ▲**

Professor Pearl W. Brazier, Program Director  
 Computer Engineering Office  
 Engineering Building, Room 3.245  
 1201 W. University Drive  
 Edinburg, TX 78539-2999  
 Telephone: 956/292-7375  
 Web Site: <http://cmpe.utpa.edu>  
 E-mail: [brazier@utpa.edu](mailto:brazier@utpa.edu)

**FACULTY**

The Computer Engineering Program is a Cooperative program with the Departments of Electrical Engineering and Computer Science.

The faculty associated with the Computer Engineering Program have appointments with those departments and teach computer engineering courses.

Affiliated faculty from the Departments of Electrical Engineering and Computer Science:

Abraham, John, Professor  
 Asgharian, Laleh, Lecturer  
 Brazier, Pearl, Associate Professor  
 Yul Chu, Assistant Professor  
 Kuang, Weidong, Assistant Professor  
 Kumar, Sanjeev, Associate Professor  
 Liu, Fang, Assistant Professor  
 Liu, Yang, Assistant Professor  
 Tsai, Ping-Sing, Senior Lecturer

**Introduction**

Computer engineering is a discipline that embodies the science and technology of design, construction and implementation of software and hardware components of modern computing systems and computer-controlled equipment. The body of knowledge for computer engineering includes algorithms, computer architecture and organization, computer systems engineering, circuits and signals, database systems, digital logic, digital signal processing, electronics, embedded systems, computer networks, operating systems, programming, software engineering and discrete structures. The curriculum has been designed following the guidelines of ACM and IEEE model curricula for computer engineering and in anticipation of meeting Accreditation Board for Engineering and Technology (ABET) standards (111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.) As a new program it is not yet accredited by ABET; however, the program intends to seek ABET accreditation as soon as all requirements to do so are met. The program awards a Bachelor of Science in Computer Engineering (BSCE).

**Mission/Objectives**

An objective of the BSCE program is to produce computer engineers who are prepared for both industry and further study at the graduate level. Graduates of the program will understand the importance of lifelong learning, and have the ability to understand and learn new technological developments in their field. Students graduating from the Computer Engineering Program should have the following: a knowledge of mathematics and basic sciences necessary for the analysis and design of computer hardware and software; an understanding of the principles of electronics as applicable to computer systems, including analysis, synthesis, simulation and testing of digital and analog electronics; an understanding of programming and software engineering, including specification, design and testing; an ability to combine hardware and software techniques to produce integrated systems; an in-depth knowledge beyond the basic level in one or more specific computer engineering topics selected by the student; and the ability to use their engineering knowledge to successfully complete design projects of substantial complexity including a capstone design project.

There are two distinct tracks available in the Computer Engineering Program - the hardware track and the software track. The objective of the software track is to provide additional concentrated skills in the area of software engineering, and quality assurance, database design, and networks. The objective of the hardware track is to provide additional concentrated skills in interfacing, embedded control, instrumentation and electronics.

**▲ DEGREE REQUIREMENTS**

Computer engineering education involves the traditional computer hardware education from electrical engineering department with the computer software education from

computer science department. A computer engineer should have a deep understanding of both hardware and software. In addition, their education program has extensive components of mathematics and science disciplines.

During the first two years of the program, students take comprehensive courses in mathematics, physics and chemistry along with introductory courses in computer science and electrical engineering. During the last two years of the program, students take an extensive set of courses in electronics, computing hardware and computing software.

With a computer engineering degree, an individual has a balanced view of hardware, software, hardware-software trade-offs, analysis, design and implementation techniques.

### Computer Engineering -Hardware Track

The hardware track focuses on digital circuits and systems, microprocessor interfacing and systems design, system security and computer system architecture and design. The hardware track will encompass many electrical engineering classes, but will focus more on computer and digital systems.

- Computer networks
- Communication systems
- Computer system architecture and design
- Embedded systems
- Microcomputers
- Microprocessor interfacing and system design
- VLSI circuits and systems
- Large-scale hardware and software systems

### Computer Engineering -Software Track

The software track allows students to learn about a broad range of topics in computer engineering, including software engineering, computer security, computer networks, computer graphics, computer languages, computer organization and architecture, parallel and distributed systems and artificial intelligence. The software track is designed to encompass many computer science classes, but focuses more on networking, database systems, operating systems and software engineering.

- Software Engineering
- Computer networks
- Computer architecture
- Computer systems
- Fault-tolerant computing
- Computer and network security
- Parallel and distributed systems
- Client and server-based tools for the Internet

### Requirements

Foundation Courses

University Core Curriculum Requirements 43 hours

ENG 1301 or 1387  
 ENG 1302 or 1388  
 ENG/Literature Course  
 HIST 2313, 2333 or 2387  
 HIST 2314 or 2388

POLS 2313 or 2387

POLS 2314 or 2388

MATH 1460\*

PHYS 2401 and PHYS 2402

CMPE 1370\*

Three hours art, music, dance or theatre

PHIL 2393 or PHIL 2390

Three hours from ANTH, ECO, PSY, SOC or CRIJ

Math and Sciences 18 hours

CHEM 1301

and 1101 Chemistry for Engineers

MATH 1460\* Calculus

MATH 1470 Calculus II

MATH 3349 Differential Equations

MATH 2346 Math for EE/CE

CMPE 3342 Probability and Statistics for  
 Electrical Engineers

or

MATH 4339 Probability and Statistics

\*Three hours of MATH 1460 and two hours of CMPE 1370 are used to satisfy the University core curriculum requirements, the remaining hours are counted to fulfill mathematics and computer engineering requirements.

Computer Engineering Courses 44 hours

Courses required of all students in the program.

CMPE 1370\*\* Engineering Computer Science I

CMPE 1170 Engineering Computer Science Lab

CMPE 2380 Computer Science II

CMPE 3333 Algorithms and Data Structures

CMPE 3334 Systems Programming

CMPE 3340 Software Engineering

CMPE 4334 Operating Systems

CMPE 2330 Digital Systems I

CMPE 2130 Digital Systems I Lab

CMPE 2320 Electrical Circuits I

CMPE 2120 Electrical Circuits I Lab

CMPE 3403 Electronics for CMPE

CMPE 4303 Digital Systems II

CMPE 4375 Introduction to VLSI

CMPE 4335 Computer Architecture  
 or

CMPE 4380 Computer Architecture

Choose (4371 and 4372) or (4373 and 4374).

CMPE 4371 Senior Design I Software  
 and

CMPE 4372 Senior Design II Software  
 or

CMPE 4373 Senior Design I Hardware  
 and

CMPE 4374 Senior Design II Hardware

\*\* One hour of CMPE 1370 is used in the computer engineering required courses.

Take 15 hours from the software track or 15 hours from the hardware track below:

Software Track		15 hours
CMPE 3341	Software Engineering II	
CMPE 4345	Computer Networks	
CMPE 4333	Database Design and Implementation	
CMPE 4343	Software Verification, Validation and Quality Assurance	
CMPE 2333	Computer Organization and Assembly Language	
Hardware Track		15 hours
CMPE 2322	Signals and Systems	
CMPE 3226	Instrumental Lab	
CMPE 3331	Microcontroller and Embedded Systems Lab	
CMPE 4390	Communications Networks	
CMPE 3437	Microprocessor Systems	
Technical Electives		6 hours
Choose six hours from:		
CMPE 4301	Digital Image Processing	
CMPE 4327	Compiler Construction	
CMPE 4336	Parallel and Distributed Computing	
CMPE 4363	Computer and Network Security	
CMPE 4341	Topics in Computer Engineering	
CMPE 4343	Software Verification, Validation and Quality Assurance	
CMPE 4350	Artificial Intelligence	
CMPE 4365	Digital Signal Processing	
CMPE 4366	Introduction to Image Processing	
CMPE 4367	Fiber Optics Communication	
CMPE 4378	Signal Integrity and Electromagnetic Compatibility	
CMPE 4381	Interactive Systems and User Interface Design	
CMPE 4382	Computer Visualization	
Total		126 hours

### Special Requirements

As part of the degree, all students must complete a two-semester capstone senior design project, represented by CMPE 4371 and 4372 or CMPE 4372 and 4374 in the degree plan. This project must be of substantial scope and complexity, demonstrate competencies from across the curriculum (in particular, the ability to design computer software, electronic hardware and integrate the two in systems) and address the social, economic and ethical consequences of the project.

### Course Descriptions

A listing of courses offered by the Department of Computer Engineering can be found on page 240.

## ▲ COMPUTER SCIENCE ▲

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Fax: 956/384-5099  
E-mail: chen@cs.utpa.edu

### FULL-TIME FACULTY

Abraham, John P., Professor  
Brazier, Pearl W., Associate Professor  
Chebotko, Artem, Assistant Professor  
Chen, Zhixiang, Professor  
Dietrich, Gustavo D., Lecturer  
Egle, David L., Lecturer  
Figueroa-Lozano, Andres, Assistant Professor  
Fowler, Richard H., Professor  
Fu, Bin, Associate Professor  
Grabowski, Laura M., Assistant Professor  
Lawrence-Fowler, Wendy A., Professor  
Liu, Fang, Assistant Professor  
Liu, Yang, Assistant Professor  
Schweller, Robert T., Assistant Professor  
Tomai, Emmett, Assistant Professor

### ▲ INTRODUCTION

Computer science is the study of the structure, function and application of computers and is central to the rapidly expanding use of information technology. Computers have traditionally been used in business, engineering and scientific applications, and now applications are found in almost all human activities from art to zoology. Computer science is both an applied and theoretical discipline, supported by the principles of science, engineering and mathematics that has a direct and profound impact on the quality of life and society at large.

### Mission

The department offers four degrees: Bachelor of Science in Computer Science (BSCS) as a broad-field major, Bachelor of Science (BS) with a major in computer science with a required minor field, Master of Science (MS) with a major in computer science, and Master of Science in Information Technology (MSIT). The BSCS degree is accredited by the Accreditation Board for Engineering and Technology Computing Accreditation Commission (CAC/ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700. The department offers a Bachelor of Science in Computer Engineering (BSCE) in cooperation with the Department of Electrical Engineering. The

department also offers courses leading to teacher certification in computer science, service courses to fulfill University core curriculum requirements, and computer science courses required for degree programs in engineering, science, and mathematics. Faculty conduct research in computer science, computer science education, and interdisciplinary fields, and contribute their professional service to student advising, mentoring, professional organizations, University activities, industrial interactions and to the community through professional expertise.

### Goals

The undergraduate curricula in computer science are based on the Association for Computing Machinery and the Institute of Electrical and Electronics Engineers Computer Society recommendations for curricula and reflect the goals of a liberal arts education. The graduate curricula provide advanced and specialized study in the areas of computer science and information technology. The curricula in computer science provide the student with marketable expertise to enter the computing and information technology fields, the skills and education required to adapt to the rapidly changing characteristic of the fields, and the foundation to pursue graduate study in computer science and information technology.

### Objectives

The objectives for the BSCS degree are to provide graduates with a thorough grounding in the key principles and practices of computing, and in the basic mathematics and scientific principles that underpin them; to provide graduates with an understanding of the mathematical and scientific concepts that underlie computer science; to provide graduates with an understanding of human and social issues that will enable them to be informed and involved members of their communities, and responsible engineering and computing professionals; to provide students with appropriate social and organizational skills, and to prepare graduates for employment in the computer science profession upon graduation, as well as for successful careers in the rapidly changing profession, and for graduate study in computing.

### Departmental Admission Requirements

Students must have computer experience equivalent to CSCI 1300 or CSCI 1360 and must have completed or be concurrently enrolled in MATH 1340 before enrolling in CSCI 1380 Computer Science I, or CSCI 1370 Engineering Computer Science I and CSCI 1170 Engineering Computer Science I Laboratory.

### Other Information

The department has access to the well-equipped University computing facilities, which include IBM-compatible and Macintosh computers and Sun Workstations with networked access to the University VAX cluster and the Internet. Advanced courses and research efforts are supported by departmental Unix workstations.

## ▲ DEGREE REQUIREMENTS

The Department of Computer Science offers a 127-hour Bachelor of Science in Computer Science (BSCS) degree as a 49-hour broad-field major with supporting mathematics and science requirements to meet CAC/ABET accreditation standards, and a Bachelor of Science degree with a 40-hour major with a required minor field. The department offers two 18-hour minors in computer science and a 24-hour minor in computer science teacher certification. The Computer Science for Science and Engineering (CSSE) minor is designed for engineering, science, and mathematics majors, and the CSCI minor is designed for majors in any discipline. The computer science major can be completed to fulfill a plan for high school teacher certification.

For the 40-hour bachelor's degree with a major in computer science, students are required to complete a minor and are encouraged to select the minor from a supporting discipline. Typical minors include mathematics, business administration, and electrical engineering; however, a variety of other minors can support the degree. Students should seek continual advisement from the computer science faculty beginning from their freshman year to plan a timely completion of their degree. An official degree plan must be filed with the department upon completion of 60 hours of University courses.

### Bachelor of Science in Computer Science (BSCS) as a Broad-Field Major

Students pursuing the (BSCS) as a broad-field major must complete the University core curriculum requirements and a computer science core. No minor is required for this degree; however, students may elect to complete a minor.

University Core Curriculum Requirements 43 hours

Complete the requirements shown in the University core curriculum requirements section shown on pages 99-101 of this catalog. PHIL 2390 or PHIL 2393 (Professional Ethics) must be taken to meet the philosophy requirement. Courses to meet the natural science requirement must be taken from biology, chemistry or physics.

NOTE: The computer literacy and mathematics requirements of the University core curriculum requirements can be met by required courses listed below. CSCI 1360 is the recommended computer literacy course for students who need an introduction to the concepts of computer science and programming experience before taking CSCI 1370 and 1170.

Computer Science Core Courses 34 hours

CSCI	1370	Engineering Computer Science I
CSCI	1170	Engineering Computer Science I Laboratory
CSCI	1381	Foundations of Computer Science
CSCI	2333	Computer Organization and Assembly Language

CSCI	2344	Programming in the Unix®/Linux Environment
CSCI	2380	Computer Science II
CSCI	3333	Algorithms and Data Structures
CSCI	3334	Systems Programming
CSCI	3336	Organization of Programming Languages
CSCI	3340	Software Engineering I
CSCI	4325	Automata, Formal Languages and Computability
CSCI	4390	Senior Project

Designated Computer Science Electives 15 hours

Select three hours from the following programming language courses:  
 CSCI 3326, CSCI 3327 or CSCI 3328.  
 Select six hours from the following:  
 CSCI 4333, CSCI 4334, CSCI 4335, CSCI 4345.  
 Any six advanced CSCI courses, excluding programming language courses.

NOTE: Only CSCI 4341 may be repeated for credit when topics change.

Mathematics/Engineering 21 hours

MATH	1460	Calculus I
MATH	1470	Calculus II
MATH	3345	Applied Linear Algebra
MATH	3373	Discrete Structures
ELEE	2130	Digital Systems Laboratory
ELEE	2330	Digital Systems Engineering I

Select three hours from the following:

MATH	3337	Applied Statistics I
MATH	4339	Mathematical Probability and Statistics
ELEE	3340	Probability and Statistics for Electrical Engineers

Communications/English 6 hours

ENG	3333	Technical Report Writing
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Select three hours from the following:  
 COMM 1303 Presentational Speaking  
 COMM 1313 Fundamentals of Speech Communication

Lab Science 4 hours

Any four-hour laboratory science course from biology, chemistry or physics. (This is in addition to the University core curriculum requirement but need not be in the same subject as the eight hours taken for that requirement.)

Other Electives 6-9 hours

Students must select electives to complete a total of 51 advanced hours in their degree. Depending on the selection of electives, this will require from six to nine hours of advanced electives.

Other Requirements

Students must complete all computer science core courses with a grade of C or better.

Total 127 hours

### Bachelor of Science with a Major in Computer Engineering (BSCE)

The computer engineering degree is a cooperative program offered jointly with the electrical engineering department. The curriculum for the degree and description of the program can be found on page 186. Courses from computer science are cross-listed as CSCI and CMPE courses. Courses from electrical engineering are cross-listed as ELEE and CMPE courses.

### Bachelor of Science (BS) with Major in Computer Science (minor required)

Students wishing to major in computer science must complete the University core curriculum requirements, a computer science core and the requirements for a related minor. It is recommended that students wishing to pursue graduate study in computer science complete Sequence one under the mathematics requirements.

University Core Curriculum Requirements 43 hours

Complete the requirements shown in the University core curriculum requirements section shown on pages 99-101 of this catalog. For the computer literacy requirement, CSCI 1360 or higher CSCI course may be recommended by the department for students with prior computer experience. Mathematics requirement can be satisfied by requirements listed below.

Computer Science Core Courses 28 hours

CSCI	1370	Engineering Computer Science I
CSCI	1170	Engineering Computer Science I Laboratory
CSCI	1381	Foundations of Computer Science
CSCI	2333	Computer Organization and Assembly Language
CSCI	2344	Programming in the UNIX®/Linux Environment
CSCI	2380	Computer Science II
CSCI	3333	Algorithms and Data Structures
CSCI	3334	Systems Programming
CSCI	3336	Organization of Programming Languages
CSCI	3340	Software Engineering I

Designated Electives in Computer Science 12 hours

Select three hours from the following:  
 CSCI 3326, CSCI 3327, CSCI 3328  
 Select six hours from the following:  
 CSCI 4333, CSCI 4334, CSCI 4335 or CSCI 4345.  
 Select three hours of advanced CSCI courses, excluding programming language courses.

**Mathematics** 11 hours

MATH 3373 Discrete Structures  
 Complete at least two of the following courses:  
 MATH 1450 Pre-calculus with Trigonometry  
 MATH 1460 Calculus I  
 MATH 1470 Calculus II

**Communications/English** 6 hours

ENG 3333 Technical Report Writing

Select three hours from the following:

COMM 1303 Presentational Speaking  
 COMM 1313 Fundamentals of Speech  
 Communication

**Minor** 18 hours

Students must complete all requirements for a related minor.

**Other Electives** 12 hours

Students must select electives to complete a total of 51 advanced hours in their degree. Depending on the number of advanced courses for the minor, the selection of elective hours in the major and the selection of other course requirements, this will require 12 hours of advanced electives.

**Other Requirements**

Students must complete all computer science core Courses with a grade of C or better.

**TOTAL** 125 hours

**Teacher Certification in Computer Science**

Teacher certification in computer science is required for teachers of Computer Science I and II in the high schools. This certification also allows teachers to teach the computer literacy course in the junior high school. Admission to College of Education (COE) teacher education programs is required for all undergraduate students seeking teacher certification. Students following high school certification degree plans (grades 8-12) should consult with their advisor in the department in which their degree is offered. They should also seek information from the COE Office of Teacher Certification and Admission Services at the Education Complex, Room 1.302, for admission requirements. Students may call the office at 956/381-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/studentsservices>.

**Minor in Computer Science****Core Courses** 10 hours

CSCI 1370 Engineering Computer Science I  
 CSCI 1170 Engineering Computer Science I  
 Laboratory  
 CSCI 1381 Foundations of Computer Science  
 CSCI 2380 Computer Science II

Designated Electives 9 hours

Select one of CSCI 3326, CSCI 3327 or CSCI 3328.

Select six hours of advanced computer science courses.

**TOTAL** 19 hours

**Minor in Computer Science for Engineering Majors****Required Course** 16 hours

CSCI 1370 Engineering Computer Science I  
 CSCI 1170 Engineering Computer Science I  
 Laboratory  
 CSCI 2344 Programming in UNIX®/  
 Linux Environments  
 CSCI 2380 Computer Science II  
 CSCI 3333 Algorithms and Data Structures  
 CSCI 3334 Systems Programming

Designated Elective 3 hours

Select one from the following courses:

CSCI 3336 Organization of Programming  
 Languages  
 CSCI 3340 Software Engineering I  
 CSCI 4333 Database Design and  
 Implementation  
 CSCI 4334 Operating Systems  
 CSCI 4350 Artificial Intelligence  
 CSCI 4360 Interactive Computer Graphics  
 and Systems

**Minor in Computer Science with Teacher Certification in Computer Science****Core Courses** 12-13 hours

CSCI 1380 Computer Science I  
 or  
 CSCI 1370 and CSCI 1170  
 CSCI 1381 Foundations of Computer Science  
 CSCI 2380 Computer Science II  
 CSCI 3333 Algorithms and Data Structures

Designated Electives 12 hours

Select one of CSCI 3326, CSCI 3327, or CSCI 3328.

Select nine advanced hours in computer science (up to six hours from CIS 3335, CIS 3338 and CIS 4308 may be used to partially satisfy this requirement).

**TOTAL** 24 hours

**Course Descriptions**

A listing of courses offered by the Department of Computer Science can be found on page 254.

# ENGINEERING ▲

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## FULL-TIME FACULTY

Banatoski, Edward, Lecturer  
Ben Ghalia, Mounir, Associate Professor  
Chu, Yul, Assistant Professor  
Dong, Wenjie, Assistant Professor  
Foltz, Heinrich, Professor  
Huq, Hasina, Assistant Professor  
Kuang, Weidong, Assistant Professor  
Kumar, Sanjeev, Associate Professor  
LeMaster, Edwin, Professor  
Li, Junfei, Associate Professor  
Peng, Jun, Assistant Professor  
Ramos-Salas, Jaime, Assistant Professor  
Son, Jae Sok, Associate Professor

## ▲ OVERVIEW

Electrical engineering is a broad field with applications in almost all areas of industry, including computer systems, control systems, telecommunications, semiconductors, electronics, and electric power.

The Department of Electrical Engineering offers a Bachelor of Science in Electrical Engineering (BSEE) degree that is accredited by the Engineering \*Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET).

This degree provides a broad, solid education in engineering fundamentals as well as the opportunity for in-depth study in specialized topics. Students completing the program will have rigorous foundation for engineering practice in industry as well as for graduate studies in engineering and other disciplines. The program has well-equipped, accessible laboratories and extensive computing facilities.

A Master of Science in Engineering (MSE) degree is also offered. For more information, consult the graduate catalog. \*ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202

## Mission

The Department of Electrical Engineering will provide students a quality education to prepare them for the practice of engineering with sufficient depth to continue their education beyond the baccalaureate degree. The curriculum will provide skills that enhance the understanding of the applications of engineering sciences. In order to provide an awareness of current and emerging industrial practice, the department will provide the students the opportunity to participate in professional organization, industrial internships or co-op experiences, and scholarly activities including supervised research. The faculty will be readily accessible and will continuously strive to improve their instructional materials and the methods of dissemination. The faculty will also practice lifelong learning by keeping abreast of and participating in the latest developments in their chosen areas of expertise and interacting across disciplines. The opportunity for student success in the undergraduate programs will be enhanced by liberal access to the computational facilities and laboratories.

## ▲ DEGREE REQUIREMENTS

University Core Curriculum Requirements 43 hours

Students must meet the University core curriculum requirements; however, some of the requirements must be fulfilled with particular courses in order to graduate with the minimum number of hours:

<b>English and Literature</b>	9 hours
Same as University Requirements	
<b>The Arts</b>	3 hours
Same as University Requirements	
<b>Philosophy</b>	3 hours
PHIL 2390 or PHIL 2393	
<b>Natural Science</b>	8 hours
PHYS 2401 PHYS 2402	
<b>Mathematics</b>	3 hours
MATH 1460*	
<b>Computer Literacy</b>	2 hours
CSCI 1380*	
<b>History</b>	6 hours
Same as University Requirements	
<b>Political Science</b>	6 hours
Same as University Requirements	
<b>Other Social Science</b>	3 hours
ECON 2301	

\*NOTE: Three hours of MATH 1460 and two hours of CSCI 1380 are used to satisfy the University core curriculum requirements, the remainder fall under "Other Course Requirements."

Electrical Engineering Required Courses 45 hours

ELEE 1101	Introduction to Electrical Engineering
ELEE 2319	Numerical Computation and Data Visualization
ELEE 2330	Digital Systems Engineering I



ELEE 2130	Digital Systems Laboratory
ELEE 2320	Electrical Circuits I
ELEE 2120	Electrical Circuits I Laboratory
ELEE 2321	Electrical Circuits II
ELEE 3301	Electronics I
ELEE 3225	Electrical Engineering Lab I
ELEE 3435	Microprocessor Systems
ELEE 3315	Electromagnetic Engineering
ELEE 3302	Electronics II
ELEE 3330	Electrical Engineering Lab II
ELEE 4303	Digital Systems Engineering II
ELEE 4321	Automatic Control Systems
ELEE 4351	Communication Theory
ELEE 4328	Solid State Electronic Devices

**Electrical Engineering Elective Courses** 9 hours

Students choose nine hours of additional ELEE courses with faculty advisor approval. The following courses have been approved as electives:

ELEE 3370	Power Electronics
ELEE 3371	Electrical Power Systems Design and Application
ELEE 4323	Rapid Control Prototyping
ELEE 4325	Introduction to Robotics
ELEE 4360	Microwave Systems Engineering
ELEE 4365	Digital Signal Processing
ELEE 4366	Image Processing
ELEE 4367	Fiber Optic Communications
ELEE 4372	Electrical Machinery and Power Systems Fundamentals
ELEE 4375	Introduction to VLSI Design
ELEE 4380	Computer Architecture
ELEE 4390	Communications Networks
ELEE 4333	Topics in Electrical Engineering (may be repeated for credit)

Other elective course options may be available. Consult your faculty advisor for approval. ELEE 3305, ELEE 3306, and ELEE 3307 are not acceptable as technical electives.

**Senior Design** 6 hours

Students must complete a major capstone design project, to be completed over a two-semester period.

ELEE 4361	Senior Design I
ELEE 4362	Senior Design II

**Other Course Requirements\*** 22 hours

MATH 1470	Calculus II
MATH 2346	Mathematics for Electrical Engineers
MATH 2401	Calculus III
MATH 3349	Differential Equations
ELEE 3340	Probability and Statistics for Electrical Engineers
	or
MATH 4339	Mathematical Probability and Statistics
MECE 2305	Engineering Mechanics

or  
CHEM 1301 General Chemistry I

\*Includes one hour each from MATH 1460 and CSCI 1380.

Total 125 hours

A grade of C or higher is required in any course that is a prerequisite (directly or indirectly) for an ELEE course. Electrical Engineering courses in which a grade of C or higher has been earned cannot be repeated in an attempt to earn a higher grade.

**Minor in Electrical Engineering**

This minor is suitable for students who wish to have a general introduction to applications of electricity and electronics.

Required Courses 3 hours

ELEE 3307	Electrical/Electronic Systems
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Elective Courses 15 hours

Select 15 hours of ELEE course, at least six hours of which must be advanced.

**Minor in Electrical Engineering for Computer Science Majors**

This minor is designed for computer science majors and other students with a particular interest in the area of computer engineering.

Required Courses 10 hours

ELEE 2330	Digital Systems Engineering I
ELEE 2130	Digital Systems I Lab
ELEE 3307	Electrical/Electronic Systems
ELEE 3340	Probability and Statistics for Electrical Engineers
	or
MATH 4339	Mathematical Probability and Statistics

Elective Courses 9 hours

Select three courses from the following:

ELEE 4303	Digital Systems Engineering II
ELEE 4375	Introduction to VLSI Design
ELEE 4380	Computer Architecture
ELEE 4390	Communication Networks

NOTE: Students should not take both ELEE 4380 and CSCI 4335, or ELEE 4390 and CSCI 4345.

**Course Descriptions**

A listing of courses offered by the Department of Electrical Engineering can be found on page 273.

# ▲ MANUFACTURING ENGINEERING ▲

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### FULL-TIME FACULTY

Bose, Subhash C., Professor  
 Butler, Alley, Professor  
 Gonzalez, Miguel, Associate Professor  
 Ignizio, James, Professor  
 Lee, Kye-Hwan, Assistant Professor  
 Li, Jianzhi, Assistant Professor  
 Lloyd, John, Research Professor  
 Nambiar, Rajiv V., Associate Professor  
 Timmer, Douglas H., Associate Professor

## ▲ GENERAL OVERVIEW

UT Pan American offers the Bachelor of Science degree in manufacturing engineering that is equivalent in scope to engineering programs at other institutions in Texas. The bachelor's degree has accreditation from the Engineering Accreditation Commission of the \*Accreditation Board for Engineering and Technology (ABET) effective May 1996. The engineering curriculum provides a rigorous foundation for engineering practice in industrial and governmental organizations as well as for graduate studies in engineering, business administration, law and medicine. In addition, a number of graduate engineering courses are offered for professional development and a Master of Science degree in engineering-concentration manufacturing.

UT Pan American is located in an industrialized region with numerous manufacturing facilities that provide an unusual opportunity for students to participate in practical applications of engineering knowledge in both the United States and Mexico.

\*ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202

### Mission

The UTPA Department of Manufacturing Engineering will provide a quality engineering education to prepare students for the practice of engineering. A strong laboratory component in the curriculum, with opportunities for industrial internships and research experience, will provide engineering

skills that enhance the understanding of the applications of engineering sciences and the importance of lifelong learning. A strong emphasis on verbal and written communication is stressed in all aspects of the curriculum.

## ▲ DEGREE REQUIREMENTS

University Core Curriculum Requirements 43 hours  
 (Sixteen hours of the University core curriculum requirements are satisfied as part of the basic engineering requirements.) All students must complete the University's core curriculum requirements shown on pages 99-101 of this catalog EXCEPT for the sections, groups and areas noted below which must be satisfied as shown.

Humanities and Visual and Performing Arts	12 hours
Must select Art, Music, Dance or Theatre Appreciation	3 hours
PHIL 2390	3 hours
English Literature	3 hours
Science and Mathematics	11 hours
Computer Literacy	2 hours
Social Sciences	3 hours
U.S. History	6 hours
Political Science	6 hours
Economics	3 hours

TOTAL 43 hours

Manufacturing Engineering Required Courses 40 hours  
 Students must complete the following required courses that includes two technical electives that are selected from upper-level manufacturing engineering courses not included in this list.

MANE 2332	Engineering Statistics
MANE 3164	Manufacturing Processes Lab
MANE 3300	Computer-Aided Design
MANE 3302	Computer-Aided Manufacturing
MANE 3337	Engineering Economics
MANE 3340	Fundamentals of Industrial Engineering
MANE 3351	Manufacturing Engineering Analysis
MANE 3364	Manufacturing Processes
MANE 4311	Quality Control
MANE 4321	Automation Systems
MANE 4340	Operations Research
MANE 4331	Manufacturing Planning and Control
MANE 33xx/43xx	Technical Elective 1
MANE 33xx/43xx	Technical Elective 2

Senior Design 6 hours  
 Students must complete a major capstone design project, to be completed over a two-semester period.

ENGR	4361	Senior Design 1	
ENGR	4362	Senior Design 2	
Other Course Requirements			8 hours
CHEM	1301	General Chemistry 1	
CHEM	1101	General Chemistry 1 Lab	
CSCI	1380	Computer Science	
ENGR	1101	Introduction to Engineering	
ELEE	3305	Electrical Systems	
MATH	1470	Calculus II	
MATH	3349	Differential Equations	
MECE	1221	Engineering Graphics	
MECE	2303	Statics	
MECE	2304	Dynamics	
MECE	2335	Thermodynamics I	
MECE	2440	Engineering Materials	
MECE	3315	Fluid Mechanics	
MECE	3321	Mechanics of Solids	

Total 127 hours

Engineering courses in which a grade of C or higher has been earned cannot be repeated in an attempt to earn a higher grade.

### Minor in Manufacturing Engineering

This minor provides a background in manufacturing engineering. It is intended to support business majors and other engineering majors and will be especially valuable for those who will be involved in manufacturing enterprises. It requires 18 hours in engineering, six of which must be at the advanced level.

The minor requires certain support courses as prerequisites. Check with the department for more information.

Required Courses			11 hours
MANE	3332	Engineering Statistics	
MANE	3364	Manufacturing Processes	
MANE	3164	Manufacturing Processes Lab	
MECE	2440	Engineering Materials	

Designated Electives			7 hours
Select seven hours from the following:			
MANE	3101	Projects in Manufacturing Engineering	
MANE	3300	Computer-Aided Design	
MANE	3302	Computer-Aided Manufacturing	
MANE	4311	Quality Control	
MANE	4331	Manufacturing Planning and Control	
MANE	4352	Manufacturing Simulation	

### Course Descriptions

Courses offered by the Department of Manufacturing Engineering can be found under their respective headings in the course descriptions section beginning on page 302.

## ▲ MECHANICAL ENGINEERING ▲

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#### FULL-TIME FACULTY

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Choutapalli, Isaac, Assistant Professor  
Crown, Stephen, Professor  
Freeman, Robert, Professor  
Fuentes, Arturo, Associate Professor  
Jones, Robert, Professor  
Kypuros, Javier, Associate Professor  
Lozano, Karen, Professor  
Mihut, Dorina, Assistant Professor  
Park, Young-Gil, Assistant Professor  
Qubbaj, Ala, Associate Professor  
Sarkar, Kamal, Lecturer  
Tarawneh, Constantine, Associate Professor  
Vasquez, Horacio, Assistant Professor

#### Mission

The Department of Mechanical Engineering will provide students a quality education to prepare them for the practice of engineering, with sufficient depth to continue their education beyond the baccalaureate degree. The curriculum will provide skills that enhance the understanding of the applications of engineering sciences. In order to provide an awareness of current and emerging industrial practice, the department will provide the students the opportunity to participate in professional organizations, industrial internships or co-op experiences, and scholarly activities including supervised research. The faculty will be readily accessible and will continuously strive to improve their instructional materials and the methods of dissemination. The faculty will also practice lifelong learning by keeping abreast of and participating in the latest developments in their chosen areas of expertise and interacting across disciplines. The opportunity for the student success in the undergraduate programs will be enhanced by liberal access to the computational facilities and laboratories.

#### ▲ GENERAL OVERVIEW

The School of Engineering and Computer Science offers an accredited Bachelor of Science degree in mechanical

engineering from the Engineering Accreditation Commission of the \*Accreditation Board for Engineering and Technology (ABET) effective 1996.

The mechanical engineering curriculum provides a rigorous foundation for engineering practice in industrial and governmental organizations as well as graduate studies in engineering.

Mechanical engineers possess a broad technical background that enables them to work in virtually every industrial sector. They are concerned generally with the development of energy systems, power generation, environmental control machines and vehicles, as well as materials processing. Mechanical engineers usually work closely with engineers having other specializations.

\*ABET, Inc., 111 Market Place, Suite 1050; Baltimore, MD 21202

The total course requirements for a Bachelor of Science in mechanical engineering consist of the following:

### ▲ DEGREE REQUIREMENTS

University Core Curriculum Requirements 43 hours

Humanities 15 hours

A course in visual and performing arts.

ENG 1301 Composition

ENG 1302 Rhetoric

ENG 23xx Sophomore Literature

PHIL 2390 Professional Ethics

Science and Math 12 hours

MATH 1460 Calculus I

PHYS 2401 Physics Science and Engineering I

PHYS 2402 Physics Science and Engineering II

Computer Literacy 2 hours

Social Science 15 hours

ECON 2301 Principles of Economics

HIST 2313 American Heritage I

HIST 2314 American Heritage II

POLS 2313 U.S. and Texas Government and Politics

POLS 2314 U.S. and Texas Government and Politics

Other Non-Engineering Courses 8 hours

CHEM 1107 Chemistry in Engineering Lab

CHEM 1307 Chemistry in Engineering

MATH 1470 Calculus II

Highly qualified students are expected to obtain advanced standing credit through acceptable test scores on ACT, CEEB (Advanced Placement Test) or CLEP. Common courses for which advanced standing credit can be obtained are:

CHEM	1107	ECON	2301
HIST	2313	PHYS	2402
CHEM	1307	ENG	1301
HIST	2314	POLS	2313
ENG	1302	MATH	1460
POLS	2314	ENG	23xx
PHYS	2401		

Engineering Courses 68 hours

ELEE	3307	Electrical and Electronic Systems
MANE	3164	Manufacturing Processes Lab
MANE	3364	Manufacturing Processes
MECE	1101	Introduction to Mechanical Engineering
MECE	1221	Engineering Graphics
MECE	2303	Statics
MECE	2304	Dynamics
MECE	2335	Thermodynamics I
MECE	2140	Engineering Materials Lab
MECE	2340	Engineering Materials
MECE	2450	Numerical Methods and Statistics
MECE	3115	Fluid Mechanics Laboratory
MECE	3160	Heat Transfer Laboratory
MECE	3304	System Dynamics
MECE	3315	Fluid Mechanics
MECE	3320	Measurements and Instrumentation
MECE	3321	Mechanics of Solids
MECE	3336	Thermodynamics II
MECE	3449	Mechanical Engineering Analysis I
MECE	3450	Mechanical Engineering Analysis II
MECE	3360	Heat Transfer
MECE	3380	Kinematics and Dynamics of Machines
MECE	4101	Fundamentals of Engineering
MECE	4350	Machine Elements
MECE	4361	Senior Design Project I
MECE	4362	Senior Design Project II

Technical Electives (choose nine hours) 9 hours

MECE	3385	Mechanical Vibrations
MECE	4304	Automatic Control Systems
MECE	4305	Vehicle Systems Modeling and Control
MECE	4315	Compressible Fluid Flow
MECE	4316	Introduction to Acoustics
MECE	4320	Introduction to Mechatronics
MECE	4322	Introduction to the Practice of Finite Elements
MECE	4323	Introduction to Combustion Engineering
MECE	4325	Composite Material Design
MECE	4326	Introduction to Ceramics Engineering
MECE	4327	Intermediate Materials Engineering
MECE	4328	Polymer Engineering
MECE	4329	Introduction to Nanotechnology
MECE	4330	Introduction to Physical Metallurgy
MECE	4360	Solar Energy
MECE	4365	Heating, Air Conditioning and Refrigeration Design

MECE	4380	Introduction to Computational Biomechanics
MECE	4381	Orthopedic Biomechanics

TOTAL 127 hours

#### Additional Program Requirements

Students must receive a grade of C or better in all courses that are prerequisites for mechanical engineering courses.

#### Minor in Mechanical Engineering/Thermal

This minor provides a background in thermal sciences, fluids and heat transfer. It is intended to support majors in chemistry, physics and mathematics. The minor requires a total of 18 hours of mechanical engineering courses, of which six must be at the advanced level. The minor requires certain support courses as prerequisites as shown below.

#### Required Courses

MECE	2335	Thermodynamics I
MECE	2140	Engineering Materials Lab
MECE	2340	Engineering Materials
MECE	3315	Fluid Mechanics
MECE	3115	Fluid Mechanics Laboratory
MECE	3336	Thermodynamics II
MECE	3360	Heat Transfer
MECE	3160	Heat Transfer Laboratory

#### Prerequisites

MATH	2401	Calculus III
MATH	3349	Differential Equations
PHYS	2401	Physics Science and Engineering I

#### Course Descriptions

A listing of courses offered by the Department of Mechanical Engineering can be found on page 310.

## ▲ MATHEMATICS ▲

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Dr. Mau Nam Nguyen, Undergraduate Coordinator

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#### FULL-TIME FACULTY

Alvarado, Frances E.M., Lecturer  
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Balogh, András, Associate Professor  
Bede, Barnabas, Assistant Professor  
Bernard, John E., Professor  
Bhatta, Dambaru, Associate Professor  
Bose, Ramendra, Assistant Professor  
Bracken, Paul, Associate Professor  
Chakraborty, Santanu, Assistant Professor  
Cruz, Gustavo, Lecturer  
Debnath, Lokenath, Professor and Department Chair  
Devanaboina, Madhavi, Lecturer  
Donnell, William, Lecturer  
Ebaseh-Onofa, Benjamin O., Associate Professor  
Fatehi, Mohammed, Lecturer  
Feng, Bao-Feng, Associate Professor  
Feng, Zhaosheng, Assistant Professor  
Galstyan, Anahit, Assistant Professor  
Gkioulekas, Eleftherios, Assistant Professor  
Heller, William, Associate Professor  
Huber, Timothy, Assistant Professor  
Knobel, Roger A., Jr., Associate Professor  
Korotkova, Tatyana, Lecturer  
Lawton, Sean, Assistant Professor  
Mahmood, Salma, Lecturer  
Maruno, Kenichi, Assistant Professor  
Mukherjea, Arunava, Professor  
Nguyen, Mau Nam, Assistant Professor  
Nguyen, Nam, Lecturer  
Onica, Constantin, Assistant Professor  
Pierce, Virgil, Assistant Professor  
Poletaeva, Elena, Assistant Professor  
Pontius, Paul, Assistant Professor  
Qiao, Zhijun, Associate Professor  
Rai, Rajendra, Lecturer  
Ramirez, Olga M., Professor  
Ray, Partha, Lecturer  
Riahi, Daniel, Professor  
Rivera, Gustavo, Lecturer  
Roy, Ranadhir, Assistant Professor  
Roychowdhury, Mrinal, Assistant Professor  
Skow, Donald P., Lecturer  
Taylor, Monty B., Professor  
Torres, J. Rene, Lecturer  
Tsay, Jenq-Jong, Assistant Professor  
Uddin, Muhammad, Lecturer  
Varlamov, Vladimir, Associate Professor  
Villalobos, Maria Cristina, Associate Professor  
Wang, Xiaohui, Assistant Professor  
Watkins, William, Professor  
Wiener, Bella, Lecturer  
Yagdjian, Karen, Associate Professor

Yanev, George, Assistant Professor  
 Yoon Ann, Eun-Mee, Lecturer  
 Yoon, Jasang, Assistant Professor

EMERITUS FACULTY  
 Schaefer, Geralda

### ▲ DEGREE PROGRAMS

The Department of Mathematics offers a major in mathematics leading to a Bachelor of Science degree with five concentrations: Applied Mathematics, Secondary Mathematics, Middle School Mathematics, Statistics, and Science and Engineering. It also offers a Bachelor of Interdisciplinary Studies degree in mathematics for certification in grades 4-8 (middle school). In addition, the department offers five minors: Mathematics, Applied Mathematics, Mathematics with Secondary Certification, Middle School Mathematics, and Statistics.

### ▲ DEGREE REQUIREMENTS

Bachelor of Science in Mathematics  
**University Core Curriculum Requirements** 43 hours

Complete the requirements shown in the University core curriculum section on pages 99-101 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Section B. Science and Mathematics  
 Group 2. Mathematics  
 MATH 1460 is the recommended beginning course.

**Core Requirements for Mathematics Major**  
**(required for all concentrations)** 30 hours

MATH	1460	Calculus I (grade of C or better)
MATH	1470	Calculus II (grade of C or better)
MATH	2401	Calculus III
MATH	3328	Introduction to Proofs (grade of C or better)
MATH	3345	Applied Linear Algebra (grade of C or better)
MATH	4339	Probability and Statistics I
MATH	4351	Modern Algebra (grade of C or better)
MATH	4357	Real Analysis (grade of C or better) 3 hours of any advanced MATH electives

NOTE: The Student must complete these major course requirements with a 2.25 or better GPA.  
 Students must also satisfy one of the five concentrations

shown below.

**Applied Mathematics Concentration Requirements** 47 hours

Required Courses		
MATH	3337	Applied Statistics I
MATH	3349	Differential Equations
MATH	3368	Numerical Methods

Designated Advanced MATH Electives: 9 hours from MATH 3338, MATH 3355, MATH 4317, MATH 4318, MATH 4319, MATH 4329, MATH 4379\*, and MATH 4390 (\*MATH 4379 can be used only once).

Other Advanced MATH Electives: 3 hours of any advanced MATH electives.

Natural Science: 3 hours beyond core. At least one physics course with lab must be in the core or this concentration.

Computer Science: 3 hours of CSCI. At least one CSCI programming course at or above CSCI 1380 must be in the core or this concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

**Secondary Mathematics Concentration Requirements** 48 hours

Required Courses		
MATH	3303	History of Mathematics
MATH	3311	Organizational Structures and Processes of Mathematics
MATH	3333	Mathematics in a Computer Environment
MATH	3373	Discrete Structures
MATH	4302	Number Theory
MATH	4304	Modern Geometries

Advanced MATH Electives: 3 hours of any advanced MATH electives.

Natural Science: 3 hours beyond core. At least one physics course with lab must be in the core or this concentration.

Computer Science: 3 hours of CSCI. At least one CSCI programming course at or above CSCI 1380 must be in the core or this concentration.

Required Teacher Preparation Courses		
READ	4351	Development Reading in Secondary Schools
EDHS	3305	Instructional Methods for English Language Learners and Learners with Exceptionalities

		in High Schools
EDHS	4301	Foundations of Education
EDHS	4302	Instructional Planning and Assessment
EDHS	4303	Instructional Strategies and Classroom Management
EDHS	4398	Integrated Internship II: 8-12
EDHS	4399	Supervised Internship II: 8-12

**Middle School Mathematics Concentration Requirements** 51 hours

Required Courses

EMAT	2306	Foundation of Mathematics I
EMAT	2307	Foundation of Mathematics II
MMAT	3309	Foundation of Mathematics III: Intermediate
MMAT	3312	Measurement and Geometry
MMAT	3313	Algebraic Structures
MMAT	3315	Probability and Statistics
MMAT	3316	Mathematics in a Computer Environment
MMAT	3321	Mathematical Problem Solving

Designated Advanced MMAT Electives: 3 hours from MMAT 3314, MMAT 3317, MMAT 3318, and MMAT 3319.

Required Teacher Preparation Courses

READ	3325	Cognitive Development and Reading Comprehension
READ	3326	Reading Across the Curriculum Content Areas
EDMS	3305	Instructional Methods for English Language Learners and Learners with Exceptionalities in Middle Schools
EDMS	3353	Young Adolescent Development and Learning
EDMS	3354	Middle School Curriculum Development and Assessment
EDMS	3355	Instructional Technology Methods and Classroom Management for Middle School Classrooms
EDMS	4398	Integrated Internship II Seminar: Middle School
EDMS	4399	Supervised Internship II: Middle School

**Statistics Concentration Requirements** 47 hours

Required Courses

MATH/STAT	2330	Elementary Statistics and Probability
MATH/STAT	3337	Applied Statistics I
MATH/STAT	3338	Applied Statistics II
MATH/STAT	4336	Sampling
MATH	3368	Numerical Methods
MATH	4340	Probability and Statistics II
MATH	4377	Applied Regression

Advanced MATH Electives: 3 hours of any advanced

MATH electives.

Computer Science: 3 hours of CSCI. At least one CSCI programming course at or above CSCI 1380 must be in the core or this concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

**Science and Engineering Concentration Requirements** 47 hours

3 hours of any advanced MATH electives.

3 hours of COSE electives (excluding MATH, STAT, MMAT, EMAT).

18 hours of advanced COSE electives (excluding MATH, STAT, MMAT, EMAT).

At least one physics course with lab must be in the core or this concentration.

Computer Science: 3 hours of CSCI. At least one CSCI programming course at or above CSCI 1380 must be in the core or this concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

**Bachelor of Interdisciplinary Studies - Mathematics Teacher Certification for Grades 4-8**

This degree option is intended for students seeking certification in mathematics grades 4-8.

**University Core Curriculum Requirements** 43 hours

Complete the requirements shown in the University core curriculum requirements section of this catalog.

**Middle School Mathematics Requirements** 36 hours

MMAT	3309	Foundations of Mathematics III: Intermediate
MMAT	3312	Measurement and Geometry
MMAT	3313	Algebraic Structures
MMAT	3314	Basics of History of Mathematics
MMAT	3315	Probability and Statistics
MMAT	3316	Mathematics in a Computer Environment
MMAT	3317	Basics of Discrete Mathematics
MMAT	3318	Basics of Number Theory
MMAT	3319	Mathematical Structures and Processes
MMAT	3320	Basics of Mathematical Modeling
MMAT	3321	Mathematical Problem Solving
MMAT	4322	Capstone Research Project

**Interdisciplinary Component** 22 hours

MATH	1450	Precalculus with Trigonometry
EMAT	2306	Foundation of Mathematics I
EMAT	2307	Foundation of Mathematics II
READ	3325	Cognitive Development and Reading Comprehension
READ	3326	Reading Across the Curriculum

**Content Areas**

Science (beyond the core): 6 hours chosen from ASTR, GEOL, PSCI, PHYS (at least one physics course with lab is required if not in the core).

**Education Component for Teacher Certification**

			18 hours
EDMS	3305	Instructional Methods for English Language Learners and Learners with Exceptionalities in Middle Schools	
EDMS	3353	Young Adolescent Development and Learning	
EDMS	3354	Middle School Curriculum Development and Assessment	
EDMS	3355	Instructional Technology Methods and Classroom Management for Middle School Classrooms	
EDMS	4398	Integrated Internship II: Middle School	
EDMS	4399	Supervised Internship II: Middle School	

General Electives: 1 additional hour from any subject.

Note: Grade of C or better required in all EMAT and MMAT courses. A GPA of 2.25 or greater is required for these courses.

**Minors in Mathematics**

The Department of Mathematics offers five minors tailored to students with various majors and career goals. Consult with the mathematics department undergraduate advisor for the minor that best fits your needs.

**Minor in Mathematics**

A minor in mathematics requires 23 hours of MATH courses, of which 15 hours must be advanced. This minor must include MATH 1460 or MATH 1487, MATH 1470 or MATH 1488, MATH 3328, MATH 3345, and nine advanced hours of approved MATH courses which must include at least one of the following: MATH 4302, MATH 4351, MATH 4357, or MATH 4360. All courses in this minor must be completed with a grade of C or better.

**Minor in Applied Mathematics**

A minor in applied mathematics requires 23 hours of MATH courses, of which 12 hours must be advanced. This minor includes MATH 1460 or MATH 1487, MATH 1470 or MATH 1488, and 15 hours chosen from MATH 2401,

MATH 3337, MATH 3338, MATH 3345, MATH 3349, MATH 3355, MATH 3368, MATH 3373, MATH 4317, MATH 4318, MATH 4319, MATH 4329, MATH 4339, MATH 4340, and MATH 4377. All courses in this minor must be completed with a grade of C or better.

**Minor in Mathematics with Secondary Certification**

A minor in mathematics with secondary certification requires 26 hours of MATH courses, of which 18 hours must be advanced. This minor includes MATH 1460 or MATH 1487, MATH 1470 or MATH 1488, MATH 3311, MATH 3345, MATH 3337 or MATH 4339, MATH 4304 and six hours chosen from MATH 3303, MATH 3333 and MATH 4302. All courses in this minor must be completed with a grade of "C" or better.

**Minor in Middle School Mathematics**

A minor in middle school mathematics requires the following 24 hours of EMAT and MMAT courses: EMAT 2306, EMAT 2307, MMAT 3309, MMAT 3312, MMAT 3313, MMAT 3315, MMAT 3316, and MMAT 3321. All courses in this minor must be completed with a grade of "C" or better.

**Minor in Statistics**

A minor in statistics requires 18 hours of MATH or STAT courses, of which at least 9 hours must be taken from the following list: MATH/STAT 2330 or MATH 2387, MATH/STAT 2335 or MATH 2388, MATH/STAT 3337, MATH/STAT 3338, MATH 4339, MATH 4340, and MATH/STAT 4336. At least 9 hours must be advanced, and the 18 hours of this minor cannot be used simultaneously to fulfill requirements in the student's major. All courses in this minor must be completed with a grade of "C" or better.

**Course Descriptions**

A listing of courses offered by the Department of Mathematics can be found on page 305.



# ▲ PHYSICS AND GEOLOGY ▲

Dr. Steven C. Tidrow, Department Chair  
Physical Science Building, Room 123  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-3521  
Fax: 956/381-2423

## FULL-TIME FACULTY

Bhatti, Muhammad Idrees, Professor  
Charleston, Santiago, Lecturer  
Chipara, Dorina, Assistant Professor  
Chipara, Mircea, Assistant Professor  
Corpuz, Edgar, Assistant Professor  
Cortez, Jose, Lecturer  
Cunningham, Mark, Associate Professor  
Dimakis, Nicholas, Assistant Professor  
Gonzalez, Juan, Assistant Professor  
Hannan, Mohammad A., Associate Professor  
Hinthorne, James, Senior Lecturer  
Lee, Hyun-Chul, Lecturer  
Lin, Yuankun, Associate Professor  
Mazariegos, Rubén A., Associate Professor  
Naqvi, Husney  
Pereya, Nicolás, Assistant Professor  
Tidrow, Steven, Associate Professor  
Zeng, Liang, Associate Professor

## Mission

The Department of Physics and Geology serves the Rio Grande Valley Community and the State of Texas through the development and execution of education programs that provide opportunities for students and professionals to learn about the physical principles, laws of nature, in support of a broad range of disciplines, so that those students and professionals may achieve the foundation, knowledge, skills and abilities, for lifelong learning and the opportunity to earn a reasonable living throughout their lifetime by providing goods and services, as responsible citizens, to improve the standard and quality of living of people within the local, regional and global communities.

## ▲ GENERAL OVERVIEW

The Department of Physics and Geology offers a Bachelor of Science degree with a major in physics and minors in earth science, geographic information systems (GIS), physical science and physics. The department also offers secondary and elementary teaching fields in physics, physical science and earth science as well as offers a Master of Science in Interdisciplinary Studies (MSIS) in physics that

is geared toward teachers.

The departmental program includes interdisciplinary research and teaching that brings the unique perspectives of physics and geology to scientific problems at many spatial and temporal scales. Departmental areas of expertise encompass a range of physics and geology disciplines including, but not limited to astronomy with an active planetarium, atomic, biophysics, computation physics, environmental, molecular, nuclear and particle physics, material science, geophysics, earth science and physics education.

Students are encouraged to actively participate in research endeavors being carried out by faculty. Research facilities include a number of experimental laboratories: Remote Sensing and GPS, Neutron Activation Analysis, Laser Optics, X-ray Diffraction, and Physics Education Research laboratories. Departmental computational facilities include a GIS/Remote Sensing laboratory, an S-node computer cluster (for parallel computations) and state-of-the-art computational biophysics software. For more information about the department and course offerings see the departmental Web site at [www.utpa.edu/dept/physci/](http://www.utpa.edu/dept/physci/).

## ▲ DEGREE REQUIREMENTS

### Major in Physics

The Bachelor of Science in physics is a 121 hour degree program consisting of a 43 hour university core curriculum, 36 specified hours of physics, 12 hours of physics electives, 18 other hours of which six must be advanced, and 12 hours of other specified requirements in mathematics.

University Core Curriculum Requirements      43 hours including:

PHYS 2401 Physics for Scientists and Engineers I  
PHYS 2402 Physics for Scientist and Engineers II

that fill the science core curriculum requirement.

The University core curriculum is shown on pages 99-101 of this catalog. 36-Hour Physics Core, 12-Hour Physics Electives

Physics Core Courses Offered at Least Once Per Year:

PHYS 3303	Thermodynamics
PHYS 3402	Modern Physics
PHYS 3305	Classical Mechanics
PHYS 3311	Math Methods for Physicists
PHYS 3101	Junior Laboratory Research I
PHYS 3404	Optics
PHYS 4305	Statistical Mechanics
PHYS 3102	Junior Laboratory Research II
PHYS 3301	Electromagnetic Theory I
PHYS 4303	Quantum Mechanics I
PHYS 4101	Senior Laboratory Research I
PHYS 4304	Quantum Mechanics II
PHYS 3302	Electromagnetic Theory II
PHYS 4102	Senior Laboratory Research II

Electives offered each semester:

PHYS 4308 Seminar in Physics

Electives offered once every two years:

PHYS 3306 Introduction to Biophysics  
 PHYS 3307 Introduction to Solid State Physics  
 PHYS 4309 Nuclear and Particle Physics  
 PHYS 4310 Introduction to Atomic Physics  
 PHYS 4311/GEOL 4301/GEOP 4301 Exploration

Geophysics I

PHYS 3308 Introduction to Nanotechnology  
 PHYS 3309 Introduction to Medical Imaging  
 PHYS 3310 Radiation Biophysics

Minor in Physics

Eighteen hours of physics of which six must be advanced.

Course Offering Cycle

Physics Core Hours

Fall, Spring, Summer:

PHYS 2401 Physics for Scientists and Engineers I  
 PHYS 2402 Physics for Scientists and Engineers II  
 PHYS 3101 Junior Laboratory Research  
 PHYS 3102 Junior Laboratory Research  
 PHYS 4101 Senior Laboratory Research  
 PHYS 4102 Senior Laboratory Research  
 PHYS 4103 Senior Laboratory Research  
 PHYS 4104 Research Laboratory in Physics Education  
 PHYS 4308 Seminar in Physics (Elective)

Fall:

PHYS 3301 Electromagnetic Theory I  
 PHYS 3303 Thermodynamics  
 PHYS 3305 Classical Mechanics  
 PHYS 4303 Quantum Mechanics I  
 PHYS 3311 Math Methods for Physicists

Spring:

PHYS 3404 Optics  
 PHYS 3302 Electromagnetic Theory II  
 PHYS 3402 Modern Physics  
 PHYS 4304 Quantum Mechanics II  
 PHYS 4305 Statistical Mechanics

Elective Hours

Electives offered each semester:

PHYS 4308 Seminar in Physics

Electives offered once every two years:

Fall Odd Years

PHYS 3306 Introduction to Biophysics  
 PHYS 4309 Nuclear and Particle Physics

Spring Even Years

PHYS 3310 Radiation Biophysics  
 PHYS 4310 Introduction to Atomic Physics

Fall Even Years

PHYS 3309 Introduction to Medical Imaging  
 PHYS 3308 Introduction to Nanotechnology

Spring Odd Years

PHYS 4311/ GEOL 4301/GEOP 4301  
 Exploration Geophysics  
 PHYS 3307 Introduction to Solid State Physics

Suggested Course Sequence for Physics Majors:

Freshman

Fall (14 hours): MATH 1460, PHYS 2401, plus 6 hours of core curriculum requirements  
 Spring (16 hours): MATH 1470, PHYS 2402, plus 8 hours of core curriculum requirements

Sophomore

Fall (16 hours): MATH 2401 PHYS 3303, plus 9 hours of core curriculum requirements  
 Spring (16 hours): Math 3349, PHYS 3402, plus 9 hours of core curriculum requirements

Junior

Fall (16 hours): PHYS 3305, PHYS 3311, PHYS 3101, 3-hour physics elective, plus 6 minor elective hours\*  
 Spring (17 hours): PHYS 3404, PHYS 4305, PHYS 3102, plus 3 hour physics elective, plus 6 minor elective hours\*

Senior

Fall (13 hours): PHYS 3301, PHYS 4303, PHYS 4101, 3-hour physics elective, plus 3 minor elective hours\*  
 Spring (13 hours): PHY 3302, PHYS 4304, PHYS 4102, 3-hour physics elective, plus 3 minor elective hours\*

\* NOTE: Of the 18 minor elective hours, nine must be advanced hours (level 3000 or 4000).

Minor in Earth Science

Eighteen hours in geology (GEOL) or the combination of courses in (GEOL), Geography (GEOG), and Geophysics (GEOP) of which six hours must be advanced.  
 NOTE: To obtain a minor in earth science, the natural science core requirements must be satisfied by a course sequence other than GEOL 1401/GEOL 1402.

Minor in Geographic Information Systems

Choose two from: (8 hours)\*  
 GEOL 1401, GEOL 1402, PSC 11421, PSC 11422, PHYS 1401, PHYS 1402, PHYS 2401, PHYS 2402; ASTR 1401, ASTR 1402

plus		
GEOL 3308		3 hours
GEOL 4408		4 hours
or		
BIOL 4403		4 hours
GEOL 4309		3 hours

Total: 18 hours

\*NOTE: The selected course sequence will satisfy the minor in geographic information systems. The natural science core requirements should be satisfied with an additional course sequence.

#### Minor in Physical Science

Eighteen hours in the physical sciences of which six hours must be advanced.

NOTE: To obtain the minor in physical science, the natural science core requirements must be satisfied by a course sequence other than PSCI 1421/PSC 11422.

Physical Science Core (required) Courses 8 hours

PSCI 1421		4 hours
PSCI 1422		4 hours

Electives Courses (Choose one) 3 hours

GEOG 2313, PSCI 3310, GEOL 3308

Advanced Required Courses (Choose one each from 3000 and 4000 level) 7 hours

PSCI 3408		4 hours
GEOL 3401		4 hours
GEOL 3403		4 hours
PSCI 4311		3 hours
GEOL 4309		3 hours

Total: 18 hours

Course Offering Cycle (Minors: Earth Science, Geographic Information Systems, and Physical Science)

#### Curriculum Core Hours

Fall, Spring, Summer:

ASTR 1401	Introduction to Astronomy I
ASTR 1402	Introduction to Astronomy II
GEOL 1401	Physical Geology
GEOL 1402	Historical Geology
PSCI 1421	Physical Sciences I
PSCI 1422	Physical Sciences II
PHYS 1401	General Physics I
PHYS 1402	General Physics II
PHYS 2401	Physics for Scientists and Engineers I
PHYS 2402	Physics for Scientists and Engineers II

#### Other Hours

Fall:

GEOL 3401	Geomorphology
GEOL 3308	Introduction to Geographic Information Systems

Spring:

GEOG 2313	Principles of Geography
GEOL 3403	Oceanography
GEOL 4408	Applications of Geographic Information Systems
GEOL 4309	Undergraduate Research in Geoscience

Fall Odd Years:

PSCI 3408	Survey of Physical Science
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Spring Even Years:

SCI 4311	Topics in Physical Science
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Spring Odd Years:

GEOL 4301/GEOP 4301/PHYS 4311	Exploration Geophysics
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As Scheduled:

GEOL 3310	Hydrologic Systems
GEOL 3404	Stratigraphy-Sedimentation
GEOL 4302	Environmental Geology
PSCI 3310	Planet Earth and Its Place in the Solar System

#### Course Descriptions

A listing of courses offered by the Department of Physics and Geology may be found in this catalog on pages:

228 (Astronomy)
285 (Geography)
285 (Geology)
335 (Physical Sciences)
327 (Physics)

**S** &  
**BS**



**College of  
Social and Behavioral Sciences  
2009-11**

# College of Social and Behavioral Sciences

**DR. VAN REIDHEAD, DEAN**

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 1201 W. University Drive  
 Edinburg, TX 78539-2999  
 Telephone: 956/381-3551  
 Fax: 956/381-2180  
<http://www.utpa.edu/colleges/csbs>

**DR. KRISTIN CROYLE, ASSISTANT DEAN**  
**DR. GARY MONTGOMERY, ASSISTANT DEAN**  
 Social and Behavioral Sciences Building, Room 234  
 1201 W. University Drive  
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 Telephone: 956/381-3551  
 Fax: 956/381-2180

## ▲ GENERAL OVERVIEW

The College of Social and Behavioral Sciences is composed of five departments: Criminal Justice, Military Science, Political Science, Psychology and Anthropology, Sociology, and two independent programs in Global Security Studies and Public Administration.

The goals of the College of Social and Behavioral Sciences are based on the importance for students to have a liberal arts education, the foundation for all University studies. The college endorses the “Goals of a Liberal Arts Education” found on page 98 of this catalog.

## ▲ ACADEMIC PROGRAMS

The college offers the Bachelor of Arts in anthropology, political science, psychology and sociology; the Bachelor of Science in psychology and criminal justice, and the Bachelor of General Studies. Students may minor in anthropology, criminal justice, global security studies, military science, political science, psychology, public administration or sociology.

At the graduate level, students can earn master’s degrees

in criminal justice, psychology, public administration, sociology, interdisciplinary studies with a concentration in anthropology and an interdisciplinary master’s in Global Studies and Leadership. More information on master’s degrees is available in the graduate catalog.

The College of Social and Behavioral Sciences helps provide students with a liberal arts education by offering instruction in several areas. Students also can satisfy the University core curriculum requirement for social science courses (see pages 99-101) by taking classes within the college.

Additionally, the Department of Military Science provides ROTC training that can lead to commissioning in the Army, Army Reserve or National Guard.

## BACHELOR OF SCIENCE IN GENERAL STUDIES

**DR. SHELIA POZORSKI, COORDINATOR**  
 Social and Behavioral Sciences Building, Room 329  
 1201 W. University Drive  
 Edinburg, TX 78539-2999  
 Telephone: 956/381-3329  
 Fax: 956/381-3333  
 E-mail: [spozorski@utpa.edu](mailto:spozorski@utpa.edu)

## ▲ PROGRAM DESCRIPTION

The general studies degree consists of three minors. No major is required. Students will complete a minimum of 120 hours with at least 51 hours of advanced coursework. Students will develop their academic programs in consultation with the general studies program coordinator, and the academic advisors for the departments or disciplines involved.

## ▲ PROGRAM REQUIREMENTS

Core Curriculum Requirements 43 hours  
 Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

Required Courses: 54 hours

Minor 18 hours minimum; all requirements for minor must be met (minimum of 12 advanced hours)

Minor 18 hours minimum; all requirements for minor must be met (minimum of 12 advanced hours)

Minor 18 hours minimum; all requirements for minor must be met (minimum of 12 advanced hours)

The three minors selected may come from any academic department within the University that offers a major or minor. Students must complete all the requirements for each minor. Some minors may require more than 18 hours per minor.

Free Electives 23 hours

Including a minimum of 15 advanced hours.

Other Requirements  
A minimum of 51 hours of advanced coursework.

TOTAL 120 hours

## GLOBAL SECURITY STUDIES

**DR. SANDRA HANSMANN, PROGRAM DIRECTOR**

E-mail: sshansmann@utpa.edu

**NICK WEIMER, PROGRAM MANAGER**

Lamar Building, Room 121  
1201 W. University Drive  
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Fax: 956/388-8089  
E-mail: newimer@utpa.edu

### ▲ MINOR IN GLOBAL SECURITY STUDIES (GSST)

The Global Security Studies minor is appropriate for any major. Its purpose is to prepare students for careers in intelligence, national security, and other sectors of the global economy through advanced interdisciplinary studies. The minor degree focuses on advanced research, effective cross-discipline team communication, and critical analysis. The GSST minor prepares students to work with people from different backgrounds, abilities, and knowledge bases. Students gain perspective and proficiency from multiple disciplines related to careers in the global economy.

### ▲ REQUIREMENTS

The GSST minor consists of 18 semester hours of study, including a foundational nine-hour Core Sequence of advanced undergraduate interdisciplinary, team-based, communication-intensive research and instruction, and a nine-hour content concentration, such as language, comparative politics, international studies, science and engineering, education, health sciences, etc. The options permit broad higher order knowledge and skill integration as required by future employers.

Completion of 30 hours and a 3.0 GPA are required for electing the minor. A 3.0 cumulative GPA and a 3.0 GPA within the minor are required in order to complete the minor. Two introductory language courses other than English or Spanish or two advanced (3000- level or higher) language courses in any language other than English are co-requisites to the minor.

### ▲ ADVISING

Students electing the Global Security Studies minor must receive advising by the minor advisor. The minor advisor must approve all minor coursework. For more information on this minor, please visit our website at [www.utpa.edu/igknu](http://www.utpa.edu/igknu).

## PUBLIC ADMINISTRATION

**DR. WILLIAM L. TURK, INTERIM DIRECTOR**

Social and Behavioral Sciences Building, Room 229  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-2545  
Fax: 956/381-2139  
E-mail: turk@utpa.edu

### ▲ MINOR IN PUBLIC ADMINISTRATION

The College of Social and Behavioral Sciences offers both a minor and a master's degree in public administration. The field of Public Administration orients one toward a career in public service in government agencies at the federal, state, regional and local levels, and in nonprofit organizations.

The public administration minor requires the completion of 18 semester hours.

Select six courses from the following list:

PUBA 3323	Introduction to Public Administration
PUBA 3324	Bureaucracy and Organizational Theory
PUBA 3325	Public Personnel Administration
PUBA 4309	Public Fiscal Administration
POLS 3314	American State and Local Government
PUBA 4378	Management of NonProfit Organizations
PUBA 4310	Comparative Public Administration
POLS 3316	American Public Policy
POLS 4365	American Administration Process
PUBA 4362	Independent Study
PUBA 4363	Special Topics

## ▲ CRIMINAL JUSTICE ▲

### DR. S. GEORGE VINCENTNATHAN, DEPARTMENT CHAIR

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Telephone: 956/381-3566  
Fax: 956/381-2490  
E-mail: gvincent@utpa.edu

### FULL-TIME FACULTY

Appiahene-Gyamfi, Joseph, Associate Professor  
Bowe, George, Lecture  
Dantzker, Mark, Professor  
Dearth, Daniel K., Associate Professor  
Ethridge, Philip, Associate Professor  
Gonzales, Stanley, Lecture  
Resendiz, Rosalva, Associate Professor  
Vincentnathan, S. George, Professor  
Vincentnathan, Lynn, Assistant Professor  
White, Thomas, Assistant Professor  
Lynch, Robert, Lecture

### ▲ GENERAL OVERVIEW

The mission of the Department of Criminal Justice is to impart knowledge and promote critical thinking about the crime problem and its control through criminal justice institutions and public cooperation. Students receive comprehensive criminal justice education with courses taken in the areas of criminal law, criminology, policing, courts, corrections and crime prevention, in the context of a general and liberal arts education with background in the social sciences. The main aim of the department is to help students develop the knowledge and analytical abilities to become agents of change in criminal justice organizations and serve well the communities in which they are located.

The learning objectives of the Department of Criminal Justice are:

1. Develop the knowledge of criminal justice theories and practices and professional abilities to address criminal justice issues for crime control.
2. Gain a liberal arts education to help understand human behavior and cultural diversity, and follow ethically fair practices and integrative values to serve and live in a democratic society.
3. Develop abilities and skills to analyze crime and criminal justice issues in a disciplined and critical manner for policy-making and problem solving.

### ▲ DEGREE REQUIREMENTS

#### Major in Criminal Justice

Upon completion of all requirements students will be awarded a Bachelor of Science in Criminal Justice (BSCJ) degree with a major in criminal justice.

University Core Curriculum Requirements 43 hours

Complete the core curriculum requirements as shown on pages 99-101 of this catalog.

NOTE: The Department of Criminal Justice strongly advises students to take Philosophy 2390 - Professional Ethics.

Criminal Justice Requirement  
(Core 27 + Electives 21) 48 hours

Criminal Justice Core 27 hours

CRIJ	1301	Introduction to the Criminal Justice System
CRIJ	1306	Court Systems and Practices
CRIJ	2313	Correctional Systems and Practices
CRIJ	2328	Police Systems and Practices
CRIJ	3303	Criminology
CRIJ	3304	Criminal Justice Research Methods
CRIJ	3305	Statistical Applications in Criminal Justice*
CRIJ	3310	The Constitution and Criminal Law
	or	
POLS	4321	American Constitutional Law: Liberties
CRIJ	4399	Criminal Justice System-Capstone

\* Prerequisite: Take one course — MATH 1340, MATH 2330 or equivalent, or higher level mathematics (MATH) or statistics (STAT) course, except MATH 1348, and advanced sophomore standing. CRIJ 3304 Research Methods is highly recommended.

Criminal Justice Electives 21 hours

CRIJ	1307	Crime in America
CRIJ	2335	Legal Aspects of Corrections
CRIJ	3320	Juvenile Delinquency and Justice
CRIJ	3325	Violent Crime
CRIJ	3341	Probation and Parole
CRIJ	3344	Gender, Crime and Criminal Justice
CRIJ	3355	Criminal Evidence and Proof
CRIJ	4311	Criminal Justice Administration
CRIJ	4312	Civil Liability in Criminal Justice
CRIJ	4313	Current Issues in Law Enforcement
CRIJ	4314	Private Security and Loss Prevention
CRIJ	4316	Environmental Crime and Justice

CRIJ	4321	White-Collar and Organized Crime
CRIJ	4322	Terrorism
CRIJ	4335	Restorative and Community Justice
CRIJ	4343	Current Issues in Corrections
CRIJ	4350	Peace, Nonviolence and Justice
CRIJ	4355	Current Issues in the Courts
CRIJ	4356	Law and Society
CRIJ	4357	Crime Prevention Techniques
CRIJ	4361	Comparative Criminal Justice Systems
CRIJ	4362	Special Topics in Criminal Justice (can be taken only once)
CRIJ	4363	Independent Studies in Criminal Justice
CRIJ	4364	Field Internship Experience

Additional Requirement 3 hours

**Criminal Justice Requirement in Sociology:**

SOCI	4333	Social Theory
	or	
SOCI	4352	Social Inequality

Each student must complete a minor selected from a discipline other than criminal justice. The specific minor should be selected in consultation with a faculty advisor. Departments vary in the number of required total semester hours and number of required advanced hours in their respective minors. Some departments offer minors requiring only six advanced hours but allow additional advanced hours to be selected from electives.

Summary of Degree Requirements	
University Core Curriculum	43 hours
Criminal Justice	48 hours
Sociology (4333 or 4352)	3 hours
Minor	18 hours
Free Electives	8 hours
Total	120 hours
(Advanced Coursework Should Total)	51 hours)

**Minor in Criminal Justice**

The criminal justice minor requires the completion of 18 semester hours in criminal justice. Nine semester hours must be advanced. Criminal justice majors cannot minor in criminal justice.

Required Criminal Justice Courses	9 hours	
CRIJ	1301	Introduction to Criminal Justice
CRIJ	2328	Police Systems and Practices
CRIJ	2313	Correctional Systems and Practices

Criminal Justice Electives	9 hours	
Select three courses from the following:		
CRIJ	3303	Criminology

CRIJ	3310	The Constitution and Criminal Law
CRIJ	3320	Juvenile Delinquency and Justice
CRIJ	3325	Violent Crime
CRIJ	3341	Probation and Parole
CRIJ	3344	Gender, Crime and Criminal Justice
CRIJ	3355	Criminal Evidence and Proof
CRIJ	4311	Criminal Justice Administration
CRIJ	4312	Civil Liability in Criminal Justice
CRIJ	4313	Current Issues in Law Enforcement
CRIJ	4314	Private Security and Loss Prevention
CRIJ	4316	Environmental Crime and Justice
CRIJ	4321	White-Collar and Organized Crime
CRIJ	4322	Terrorism
CRIJ	4335	Restorative and Community Justice
CRIJ	4343	Current Issues in Corrections
CRIJ	4350	Peace, Nonviolence and Justice
CRIJ	4355	Current Issues in the Courts
CRIJ	4356	Law and Society
CRIJ	4357	Crime Prevention Techniques
CRIJ	4361	Comparative Criminal Justice Systems
CRIJ	4362	Special Topics in Criminal Justice*
CRIJ	4363	Independent Studies in Criminal Justice*
CRIJ	4364	Field Internship Experience

\*Can be taken only once for credit.

**Course Descriptions**

A listing of courses offered by the Department of Criminal Justice can be found on page 252.

**▲ MILITARY SCIENCE ▲**

**LT. COL. MARICELA ALVARADO,  
ROTC DEPARTMENT CHAIR**

Lamar Building B, Room 104  
1201 W. University Drive  
Edinburg, TX 78539-2999  
Telephone: 956/381-3600  
Fax: 956/381-3603  
E-mail: rotc@utpa.edu

**FULL-TIME FACULTY**

Alvarado, Maricela, Professor  
Rivers, Christopher, Col., Assistant Professor  
Maloy, Lee R., Master Sgt., Senior Military Instructor  
Miles, Michael G., Master Sgt. (Retired),  
Enlisted Instructor



## ▲ GENERAL OVERVIEW

The departmental objective is to develop selected men and women with potential to serve as commissioned officers in the active Army, National Guard or Army Reserve. The leadership and management experience gained through the ROTC and service as a commissioned officer will benefit the student in civilian as well as in military service and national defense pursuits. Students in the program have the opportunity to:

1. Enhance leadership and managerial potential.
2. Attain a basic understanding of military fundamentals and national security.
3. Attain a clear understanding of the concept of military art and science.
4. Develop a strong sense of personal honor, integrity and individual responsibility.

### ROTC Faculty Advisory Committee

The ROTC Faculty Advisory Committee, composed of nine advisors from different departments, serves as liaison with the Department of Military Science and helps provide guidance on career opportunities with the Army, Army Reserve or National Guard for students of other departments at The University of Texas-Pan American.

## ▲ ARMY SCHOLARSHIP PROGRAM

Students who meet prerequisites may compete for nationally or state-awarded U.S. Army scholarships that pay for tuition, books, fees and other purely educational costs and provide a tax-free monthly subsistence allowance for 10 months of each year the scholarship is in effect. Free room and board is available on campus for a limited number of students, with priority going to ROTC scholarship winners. Several application deadlines exist. Contact the Department of Military Science for details.

### Veterans Assistance

Veterans who enroll in upper-level military science receive a tax-free monthly subsistence allowance for 10 months each of the two years, in addition to benefits provided by the Veterans Administration, Army Reserve or National Guard.

### Simultaneous Membership Program (SMP)

Eligible students are allowed to participate with Army Reserve units or the National Guard combined with College ROTC. In addition to Reserve or National Guard pay, the student receives ROTC pay. In the SMP program, the student's pay will be elevated to the rank of E-5 (sergeant) and the student will fill the position of a junior leader in that unit. Upon completion of a bachelor's degree and the ROTC program, the student may be commissioned in the active Army, Army Reserve or National Guard in the rank of second lieutenant.

## Departmental Activities

The Department of Military Science sponsors several extracurricular activities such as the annual Military Ball, Dining-Out, JROTC Day, Field Training Exercises and Guadalupe River canoe trip. Additional opportunities to participate in team events are available in Color Guard, Bronc Club and Ranger Challenge.

### Army Training

Selected cadets enrolled in the course may be eligible to compete for attendance to either the Airborne, Air Assault, Northern Warfare, Mountain Warfare or Cadet Troop Leadership Training. Selection is based motivation, physical condition and performance in military science.

### Minor in Military Science

The Department of Military Science offers a minor in military science and a commission as an officer in the active Army, Army Reserve or National Guard through the ROTC program on the Edinburg campus.

- No Commitment or Obligation for Lower-Level Courses  
Students need not seek a career in the U.S. Army to enroll in lower-level courses such as marksmanship and first aid, survival and land navigation training, and basic leadership, which provide the opportunity to increase individual skills and knowledge in leadership and management techniques in and outside the classroom. Lower-level courses also fulfill the physical education requirement for the University core curriculum requirement.

#### Requirements for Advanced Military Science

- Standing and Commissioning
  1. Complete four semesters of lower-level ROTC courses or have advanced credit as a veteran, or from USAR/ARNG Basic Training, ROTC Basic Camp, or have JROTC credit and approval.
  2. Maintain full-time student status.
  3. Pass a military physical examination.
  4. Pass the ROTC Physical Aptitude Examination.
  5. Maintain an overall GPA of 2.0.
  6. Sign an Advanced ROTC and Commissioning Agreement.
  7. Successfully complete four semesters of advanced ROTC courses.
  8. Successfully complete ROTC Leadership Camp.
  9. Successfully complete an undergraduate degree program.
  10. Complete at least one departmentally approved Professional Military Education course from each of the areas listed: written communication skills, human behavior, computer literacy, mathematics and military history.

### Minor Requirements

18 hours: ROTC 3202 plus 16 hours of advanced military science courses (ROTC 3401, ROTC 3402, ROTC 4401, ROTC 4403).

### Course Descriptions

A listing of courses offered by the Department of Military Science can be found on page 342.

## ▲ POLITICAL SCIENCE ▲

### DR. JAMES WENZEL, DEPARTMENT CHAIR

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### FULL-TIME FACULTY

Alianak, Sonia, Associate Professor  
Baik, Ellen, Assistant Professor  
Bokina, John, Professor  
Chen, Xi, Assistant Professor  
Freeman, Samuel, Associate Professor  
Calderon Galdeano, Emily, Lecturer  
Hays, Robert, Lecturer  
Jackson, Ed, Lecturer  
Lavariega-Monforti, Jessica L., Assistant Professor  
McGlynn, Adam, Assistant Professor  
Morgan, Glynn, Associate Professor  
Mounce, Gary, Associate Professor  
Nelson, James, Lecturer  
Polinard, J.L., Professor  
Sandoval, Cecilia, Lecture  
Turk, William, Associate Professor  
Wenzel, James P., Associate Professor  
Wrinkle, Robert, Professor

### ▲ GENERAL OVERVIEW

Political science majors and minors take courses in six fields:

- American Government and Politics, including local, state and national
- Comparative Government and Politics
- International Relations
- Methods of Political Science Research
- Political Theory
- Public Administration

Political science faculty and students are actively involved in such campus activities as pre-law advising, student government and other student political activities. Students majoring in political science may pursue active careers in public administration, law, national, state and local government, diplomatic services, journalism, and teaching.

### Pre-Law

The pre-law program includes the UTPA Law School Preparation Institute (LSPI). The LSPI meets during the second summer session and focuses on developing the analytical skills (including reading, writing and speaking skills) necessary to legal education. In addition to UTPA faculty, faculty and staff from various law schools conduct the sessions. LSPI is limited to 20 full-time undergraduate UTPA students and participation is by invitation only. For more information, contact Dr. Jerry Polinard at 956/381-3342 or at (polinard@utpa.edu).

### Minor in Legal Studies

Complete 18 hours from the following courses:

BLAW 3337	Business Law I
CRIJ 4356	Law and Society
ENG 3320	Special Topics (Legal Writing)
HIST 3355	American Legal History
POLS 4320	American Constitutional Law: Federalism
POLS 4321	American Constitutional Law: Liberties
POLS 4367	American Judicial Process
PSY 4342	Psychology and Law
PHIL 4309	Law and Philosophy

### ▲ Degree Requirements

**Major in Political Science** 120 hours

University Core Curriculum Requirements 43 hours

Complete the university core curriculum requirements as shown on pages 99-101 of this catalog, including POLS 2313 and 2314 or POLS 2387 and 2388.

MATH 1340 is required by Political Science to fulfill the Math core requirement.

Departmental Requirements 9 hours

Three hours of Introductory Statistics (MATH/STAT 2330, PSY/ANTH 2401, or SOCI 2301).

Six hours from two of the following three areas:

- Introduction to Political Science (POLS 1333)
- Introduction to Political Economy (POLS 2334)
- Economics (ECON 2301 or ECON 2302)

Designated Advanced Coursework 27 hours  
 6 hours in American Government and Politics  
 3 hours in Comparative Government  
 3 hours in International Relations  
 3 hours in Methods of Political Science Research (POLS 3331)  
 3 hours in Political Theory  
 3 hours in Public Administration  
 6 hours of advanced Political Science electives

Hours for Minor and Electives 41 hours  
 18 hours in approved minor  
 12 hours of 3000-4000 level electives  
 11 hours of 1000-4000 level electives

**Minor in Political Science**

Eighteen hours in political science, of which nine hours must be advanced.

**Required Courses**

POLS 2313 U.S. and Texas Government and Politics

POLS 2314 U.S. and Texas Government and Politics

**Designated Electives**

POLS 1333 Introduction to Political Science  
 or  
 POLS 2334 Political Economy

Nine advanced hours in political science.

**Course Descriptions**

A listing of courses offered by the Department of Political Science can be found on page 329.

**▲ PSYCHOLOGY AND ANTHROPOLOGY ▲**

**DR. VALERIE JAMES-ALDRIDGE,  
 DEPARTMENT CHAIR**

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**▲ PSYCHOLOGY ▲**

**FULL-TIME FACULTY**

Alaniz, Martha, Senior Lecturer  
 Aldridge, James W. Jr., Professor  
 Alfaro, Edna, Assistant Professor  
 Armstrong, Blake, Senior Lecturer  
 Benham, Grant, Associate Professor  
 Cain, Roy E., Associate Professor  
 Croyle, Kristin, Associate Professor  
 Eisenman, Russell, Associate Professor  
 Ernst, Fred, Professor  
 Gasquoine, Philip, Associate Professor  
 Gonzalez, Genaro, Professor  
 Hirai, Michyo, Assitant Professor  
 James-Aldridge, Valerie G., Associate Professor  
 Jou, Jerwen, Professor  
 Leka, Gary, Lecturer  
 Kendrick, Sherrill, Assistant Professor  
 Montgomery, Gary T., Professor  
 Penzerra, Rose, Senior Lecturer  
 Rogers, Darrin, Assistant Professor  
 Skidmore, Susan, Assistant Professor  
 Weimer, Amy, Assistant Professor  
 Winkel, Mark H., Associate Professor  
 Wisener, Robert H. III, Assistant Professor

**▲ GENERAL OVERVIEW**

A major is offered in psychology with either a Bachelor of Arts or a Bachelor of Science degree. A demand exists for baccalaureate psychology graduates in public and private agencies dealing with human relations.

However, the more challenging and specialized fields in psychology usually require further study beyond the bachelor's degree. High academic standards are required

of those students planning to do graduate work, and the program is designed to ensure that students planning further study acquire a background that will maximize their chances of success in graduate school. Training in research methods, statistics and theory are required of all majors. According to their own interests, majors take further courses in the areas of clinical, experimental, social and developmental psychology. Students pursuing the Bachelor of Science degree also take further courses in the natural sciences.

Whenever possible, students are involved in the many ongoing research programs of the department, giving them practical experience in the discipline.

In addition, the department offers a minor in psychology.

**Mission**

The Department of Psychology and Anthropology is an academic administrative unit within the College of Social and Behavioral Sciences at The University of Texas-Pan American. The department has been established to facilitate accomplishing the University mission to meet the higher education needs of the citizenry of South Texas and the state of Texas. The department is committed to excellence in instruction, student performance, research, scholarly accomplishment and professional service in the disciplines constituting psychology and anthropology.

The Department of Psychology and Anthropology strives to fulfill its responsibilities by providing quality undergraduate academic programs in anthropology and psychology. At the graduate level, the department provides opportunities for students with baccalaureate degrees to pursue advanced study in clinical and experimental psychology. (More information on graduate programs is available in the Graduate Catalog.) The department is committed to providing an environment of academic freedom and responsibility so that faculty may develop and implement successful teaching activities that ensure high standards of instruction and student performance.

The Department of Psychology and Anthropology recognizes that its faculty has a commitment to those research and creative activities indicative of scholarly excellence. The department attempts to nurture and support such activities so that faculty may maintain currency in their knowledge of subject matter, vibrancy in their teaching, dedication to their respective disciplines and interest in extending the boundaries of human knowledge and understanding.

The Department of Psychology and Anthropology is also committed to providing effective instructional opportunities for all students at the University, regardless of their major area of concentration. The department attempts to meet this goal by providing students with instruction in several areas of study that ground the liberal arts tradition. To this end, the department provides instructional opportunities for all students to develop further the following characteristics indicative of a university-educated person:

1. An inquiring attitude that acknowledges the many-sided nature of most important questions, recognizes

the need to examine inherited judgments, and reveals a desire for continued learning and creative expression.

2. The ability to use words accurately and effectively, and to communicate clearly in oral and written formats.
3. The ability to analyze complex problems and to synthesize facts and ideas.
4. An appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; and sensitivity to the need for informed, independent, moral and ethical decisions.
5. Knowledge of political and social systems in the United States and other nations, and their interrelationships.
6. An understanding of self, along with an empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.

The Department of Psychology and Anthropology is also committed to sponsoring service activities that meet the intellectual and cultural interests of the University and the community that the University serves.

**▲ DEGREE REQUIREMENTS**

**Major in Psychology (BA Degree)**

University Core Curriculum Requirements 43 hours

Complete the university core curriculum requirements as shown on pages 99-101 of this catalog.

A social science outside of psychology is required to fill the core social science requirement.

Core Courses 16 hours

PSY	1310	Introduction to Psychology
PSY	2401	Basic Statistics for Psychologists
PSY	3325	Research Methods in Psychology
PSY	3343	Tests and Measurements in Psychology
PSY	3353	Physiological Psychology

Electives 15 hours

Select 15 hours of psychology courses, nine of which must be advanced.

Other requirements for BA or BS degree in psychology.

Please be aware of the “Requirements for a Bachelor’s Degree” enumerated on pages 99-101. These include completion of a total of 120 hours of coursework, completion of a minor and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

**Major in Psychology (BS Degree)**

University Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

A social science outside of psychology is required to fill the core social science requirement.

Core Courses 16 hours

PSY	1310	Introduction to Psychology
PSY	2401	Basic Statistics for Psychologists
PSY	3325	Research Methods in Psychology
PSY	3343	Tests and Measurements in Psychology
PSY	3353	Physiological Psychology

## Designated Electives

Select one course from each of the following four areas: (12 hours):

- a). Cognitive Foundations
  - PSY 3373 Sensation and Perception
  - PSY 4319 Cognitive Processes
  - PSY 4320 Memory
  - PSY 3345 Psychology of Learning
- b). Theoretical Foundations
  - PSY 4318 Theories of Learning
  - PSY 4363 Systems and Theories in Psychology
  - PSY 4333 Theories of Personality
- c). Developmental/Social/Cultural Foundations
  - PSY 3324 Social Psychology
  - PSY 3332 Infancy Through Adolescence
  - PSY 3333 Psychology of Adulthood: Maturity and Old Age
  - PSY 3337 Developmental Psychology: Lifespan
  - PSY 3338 Gender Development
  - PSY 4326 Cross-Cultural Psychology
  - PSY 4328 Psychological Issues in the Mexican-American Community
- d). Applications
  - PSY 3340 Stress Management
  - PSY 3405 Behavior Modification
  - PSY 4313 Abnormal Psychology
  - PSY 4342 Psychology and Law
  - PSY 4343 Human Factors

## Electives

Nine hours of psychology.

## Other Requirements

Any eight hours of science in addition to the University core curriculum science requirement from the following can be taken in different disciplines: astronomy, biology, anatomy and physiology, chemistry, geology, physical science, and physics.

Please be aware of the "Requirements for a bachelor's Degree" enumerated on pages 99-101. These include completion of a total of 120 hours of coursework, completion of a minor, and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

**Minor in Psychology**

Eighteen hours in psychology, of which six must be advanced.

## Required Course

PSY 1310 Introduction to Psychology

**Course Descriptions**

A listing of Psychology courses offered can be found on page 335.

**▲ ANTHROPOLOGY ▲****DR. THOMAS POZORSKI,****ANTHROPOLOGY COORDINATOR**

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**FULL-TIME FACULTY**

Glazer, Mark, Professor

Dorsey, Margaret, Assistant Professor

Graham, Margaret, Assistant Professor

Lovett, Bobbie, Lecturer

Hinojosa, Servando, Associate Professor

Pozorski, Shelia, Professor

Pozorski, Thomas, Professor

Skowronek, Russell, Professor

Vincentnathan, Lynn, Assistant Professor

**▲ GENERAL OVERVIEW**

The primary focus of both the major and minor is on anthropology as a broad-based discipline, with special emphasis on cultural anthropology, physical anthropology, archaeology and folklore. Special topic courses are also available in advanced folklore, anthropological theory and methods, and New World archaeology.

A major or minor in anthropology is particularly appropriate for professionals who plan to practice in South Texas or a comparable area made special by the meeting of different cultures. Anthropology also provides an excellent

preparation for careers in international business, government, politics, criminal justice, social work and medicine or other health-related professions. The more specialized fields in anthropology usually require further study beyond the bachelor's degree.

**Mission**

The Anthropology Program is an academic unit within the College of Social and Behavioral Sciences at The University of Texas-Pan American. The program has been established to facilitate accomplishing the University's mission to meet the higher education needs of the citizenry of South Texas and the state of Texas. The program is committed to excellence in instruction, student performance, research, scholarly accomplishment and professional service in the discipline of anthropology.

The Anthropology Program strives to fulfill its responsibilities by providing quality undergraduate academic programs in anthropology. Emphasis is placed on exposing students to a holistic approach to anthropology that incorporates the three major subfields – cultural anthropology, physical anthropology and archaeology. At the graduate level, the program provides opportunities for students with baccalaureate degrees to fulfill an anthropology concentration for an interdisciplinary master's degree and to fulfill required graduate hours outside one's field of study to earn a master's degree in various disciplines at the University. The Anthropology Program is committed to providing an environment of academic freedom and academic responsibility so that faculty may develop and implement successful teaching activities that ensure high standards of instruction and student performance.

The program recognizes that its faculty has a commitment to those research and creative activities indicative of scholarly excellence. The program attempts to nurture and support such activities so that faculty may maintain currency in their knowledge of subject matter, vibrancy in their teaching, dedication to their respective disciplines, and interest in extending the boundaries of human knowledge and understanding.

The Anthropology Program is also committed to providing effective instructional opportunities for all students at the University, regardless of their major area of concentration. The program attempts to meet this goal by providing students with instruction in several areas of study that ground the liberal arts tradition. To this end, the program provides instructional opportunities for all students to develop further the following characteristics indicative of a university-educated person:

1. Learning about anthropology fosters an inquiring attitude that acknowledges the many-sided nature of most important questions, recognizes the need to examine inherited judgments and reveals a desire for continued learning and creative expression.
2. A holistic approach to anthropology hones a person's ability to use words accurately and effectively and to communicate clearly in oral and written formats.
3. Anthropological thinking nurtures the ability to

analyze complex problems and to synthesize facts and ideas.

4. Exposure to the field of anthropology encourages an appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; and sensitivity to the need for informed, independent, moral and ethical decisions.
5. Learning about anthropology increases knowledge about political and social systems in the United States and other nations, and their interrelationships. Such multicultural perspectives can foster greater understanding, tolerance and respect for different lifestyles and viewpoints.
6. Anthropology encourages an understanding of self, along with an empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.

The Anthropology Program is also committed to sponsoring service activities that meet the intellectual and cultural interests of the University and the community that the University serves.

**▲ DEGREE REQUIREMENTS**

The department offers a major in anthropology leading to the Bachelor of Arts degree.

**Major in Anthropology**

University Core Curriculum Requirements 43 hours

Complete the University core curriculum requirements as shown on pages 99-101 of this catalog.

A social science outside of anthropology is required to fill the core social science requirement.

College of Social and Behavioral Sciences 3 hours  
 Three hours in a separate social science discipline outside the major and the social science taken to fill the UTPA social science core requirement.

Core Courses 15 hours

ANTH 1323	Introduction to Cultural Anthropology
ANTH 1324	Human Evolution
ANTH 1342	Introduction to Archaeology
ANTH 1353	Introduction to Folklore
ANTH 4345	Anthropological Theory and Methodology

Designated Electives 21 hours  
 Select 21 hours from anthropology. A substitution for one three-hour course may be chosen from the following list of related courses.

Related courses

ENG	3319	Descriptive Linguistics
ENG	3321	Language and Culture

**Other Requirements**

A minimum of 24 hours in anthropology must be at the advanced level.

Please be aware of the "Requirements for a bachelor's Degree" enumerated on pages 99-101. These include completion of a total of 120 hours of coursework, completion of a minor and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

**Minor in Anthropology**

Eighteen hours in anthropology, of which six hours must be advanced.

**Required Courses**

ANTH	1323	Introduction to Cultural Anthropology
ANTH	1324	Human Evolution
ANTH	4345	Anthropological Theory and Methodology

**Minor in Folklore**

The minor in folklore requires 18 credit hours\* as delineated below:

**Required Courses**

			3 hours
ANTH	1353	Introduction to Folklore	
15 hours from:			15 hours
ANTH	1354	The Anthropology of Expressive Culture	
		or	
MUS	1308	Mexican Folk Music	
ANTH	3344	Archive Studies	
ANTH	4353	Folklore of the Rio Grande Valley	
ANTH	4355	Psychology and Mythology	
		or	
PSY	4355	Psychology and Mythology	
ANTH	4350	Mexican-American Folk Medicine	

\*Only six hours can be taken in courses at the 1300 level.

**Course Descriptions**

A listing of courses offered by Anthropology can be found on page 220.

## ▲ SOCIOLOGY ▲

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Chamberlain, Jenny, Senior Lecturer  
De La Cruz, Marcie, Senior Lecturer  
Dominguez, Armondo, Senior Lecturer  
Garcia, Jesse, Lecturer  
Guerra, Ramon S., Associate Professor  
Liebowitz, Stephen W., Associate Professor  
Raajpoot, Uzzer A., Associate Professor  
Richardson, Chad D., Professor  
Ryabov, Igor, Assistant Professor  
Su, Dejun, Assistant Professor  
Wang, Guang-zhen, Professor

**▲ GENERAL OVERVIEW**

The Department of Sociology offers a major in sociology leading to a Bachelor of Arts degree, as well as a minor in sociology.

Students majoring and minoring in sociology receive excellent preparation for careers in public and private agencies dealing in human relations. The more challenging and specialized fields in sociology usually require further study beyond the bachelor's degree. Sociology also provides an excellent background for those considering careers in such fields as education, health, law, law enforcement, business and journalism.

## ▲ Degree Requirements

### Major in Sociology

University Core Curriculum Requirements 43 hours

Complete the university core curriculum requirements as shown on pages 99-101 of this catalog.

Students may not count Sociology toward the social science requirement in the University core curriculum.

College of Social and Behavioral Sciences 3 hours

Three additional hours of social science courses in a separate social science discipline outside sociology and the social science taken to fill the core curriculum requirement such as anthropology, criminal justice, economics, political science or psychology.

Core Courses 18 hours

SOCI	1313	Principles of Sociology
SOCI	2301	Statistics for the Behavioral Sciences
SOCI	3301	Quantitative Social Research
SOCI	4333	Social Theory

Select two from the following three courses:

SOCI	3302	Qualitative Social Research
SOCI	4334	Contemporary Social Theory
SOCI	4352	Social Inequality

Designated Electives 15 hours

Select 15 hours of sociology, of which at least nine hours must be upper level (3000-4999).

### Other Requirements for BA in Sociology

Please be aware of the "Requirements for a Bachelor's Degree" enumerated on pages 205. These include completion of a total of 120 hours of coursework, completion of a minor, and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

### Minor in Sociology

Eighteen hours in sociology, of which nine hours must be upper level. Must include the following:

SOCI	1313	Principles of Sociology
SOCI	4333	Social Theory
		or
SOCI	4352	Social Inequality

### Course Descriptions

A listing of courses offered by the Department of Sociology can be found on page 343.



# 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 for 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, SPAN 1301 is a Spanish course given in the freshman year that carries three hours of credit per semester. All undergraduate courses ending in the numbers 87 and 88 are honors courses.

The subject codes listed below correspond to the following subjects and departments:

Code	Subject	Department, College or Program	Page
ACC	Accounting	Accounting and Business Law	219
ANTH	Anthropology	Psychology and Anthropology	220
ART	Art	Art	223
ASTR	Astronomy	Physics and Geology	228
BIBL	Bible	History and Philosophy	228
BIOL	Biology	Biology	228
BLAW	Business Law	Accounting and Business Law	233
CHEM	Chemistry	Chemistry	233
CIS	Computer Information Systems	Computer Information Systems	
		and Quantitative Methods	236
CLSC	Clinical Lab Sciences	Clinical Laboratory Sciences	238
CMPE	Computer Engineering	College of Science and Engineering	240
COMD	Communication Disorders	Communication Sciences and Disorders	244
COMM	Communication	Communication	245
CRIJ	Criminal Justice	Criminal Justice	252
CSCI	Computer Science	Computer Science	259
DANC	Dance	Health and Kinesiology	259
DIET	Dietetics	Dietetics	262
ECON	Economics	Economics and Finance	263
ED	Education	Educational Psychology	265
EDAC	Education	Alternative Certification Program	
		Curriculum and Instruction	267
EDAK	Education	Kinesiology - All Level	
EDAL	Education	All-Level Education	267
EDBE	Education	Bilingual Education	
		Curriculum and Instruction	268
EDCI	Education	Curriculum and Instruction	
		Curriculum and Instruction	269
EDEC	Education	Early Childhood	
		Curriculum and Instruction	371
EDMS	Education	Middle School	
		Curriculum and Instruction	372
EDHS	Education	High School	
		Curriculum and Instruction	271
ENSC	Environmental Science	Environmental Science	
ELEE	Electrical Engineering	Engineering	273
EMAT	Math	Foundations of Math	309
ENG	English	English	276
ENGR	General Engineering	Engineering	282

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<b>Code</b>	<b>Subject</b>	<b>Department, College or Program</b>	<b>Page</b>
FINA	Finance Economics	Finance and General Business	283
FORL	Foreign Language	Modern Languages and Literature	284
FREN	French	Modern Languages and Literature	284
GEOG	Geography	Physics and Geology	285
GEOL	Geology	Physics and Geology	285
GEOP	Geophysics	Physics and Geology	286
GERM	German	Modern Languages and Literature	286
GSST	Global Security Studies	College of Social and Behavioral Sc.	286
HIST	History	History and Philosophy	287
HLTH	Health	Health and Kinesiology	282
HONR	Honors	Honors Studies Program	293
HRP	Health-Related Programs	College of Health Sciences and Human Services	294
INTB	International Business	Management, Marketing and International Business	294
KIN	Kinesiology	Kinesiology	296
LAMS	Latin American Studies	Modern Languages	299
LEAD	Leadership	Leadership	299
MANA	Management	Management, Marketing and International Business	300
MANE	Manufacturing Engineering	Engineering	302
MARK	Marketing	Management, Marketing and International Business	303
MATH	Mathematics	Mathematics	305
MCLL	Modern/Classical Literature	Modern Languages and Literature	348
MECE	Mechanical Engineering	Engineering	310
MMAT	Mathematics	Foundations of Math	309
MUS	Music	Music	314
NURS	Nursing	Nursing	319
PHAS	Physician Assistant Studies	Physician Assistant Studies	321
PHIL	Philosophy	History and Philosophy	323
PHYS	Physics	Physics and Geology	327
POLS	Political Science	Political Science	329
PORT	Portuguese	Modern Languages and Literature	334
PSCI	Physical Science	Physics and Geology	335
PSY	Psychology	Psychology and Anthropology	335
PUBA	Public Administration	College of Social and Behavioral Sciences	337
QUMT	Quantitative Methods	Computer Information Systems and Quantitative Methods	338
READ	Reading	Curriculum and Instruction	338
REHS	Rehabilitation	Rehabilitation	339
ROTC	Reserve Officers Training Corps	Military Science	342
SCIE	Science	Teacher Certification	343
SOCI	Sociology	Sociology	343
SOCW	Social Work	Social Work	346
SPAN	Spanish	Modern Languages and Literature	348
SPED	Special Education	Educational Psychology	351
STAT	Statistics	Mathematics	353
UNIV	General	Learning Framework	353
WMST	Women's Studies	College of Arts and Humanities	353

# Accounting

ACC 2301 Introduction to Financial Accounting [3-0]  
fall, spring, summer  
The course discusses the accounting environment, the accounting model, business transaction analysis and financial statement preparation, financial statement analysis, accounting for assets, liabilities and owners' equity in proprietorships and corporations. Prerequisites: MATH 1340 or MATH 1341 with a grade of C or better.

ACC 2302 Fundamentals of Managerial Accounting [3-0]  
fall, spring, summer  
This course discusses the contemporary management tools and techniques consistent with the evolving role and responsibilities of the management accountant in today's manufacturing, service and merchandising enterprises. Activity-based costing, just-in-time inventory systems and quality costing along with cost classifications, mixed cost analysis and short-term decision-making are among the topics covered in the course. Prerequisite: ACC 2301 with a grade of C or better.

ACC 3300 Internship in Accounting [0-0-3]  
fall, spring, summer  
This internship is designed to give students an opportunity to gain real world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. Prerequisites: Upper-division standing and approval by both department chair and employer providing internship experience.

ACC 3320 Cost Accounting [3-0]  
fall, spring, summer  
This course complements the coverage in ACC 2329, and focuses on product costing, cost allocation and budgeting techniques. Specifically, it emphasizes master and flexible budgets, and job order and process costing, joint cost allocation, and standard costing and analysis. Prerequisite: ACC 2302 with a grade of C or better.

ACC 3321 Intermediate Accounting I [3-0]  
fall, spring, summer  
A study of the accounting process and financial statements, including a thorough examination of the procedures involved in financial statement presentation as well as the underlying theory; a detailed study of current assets and current liabilities. Prerequisite: ACC 2302 with a grade of C or better.

ACC 3322 Intermediate Accounting II [3-0]  
fall, spring, summer  
Continuation of the examination of the accounting process with emphasis on non-current assets and liabilities including pensions and leases. Prerequisite: ACC 3321 with a grade of C or better.

ACC 3323 Individual Income Tax [3-0]  
fall, spring  
This course provides an analysis of federal tax laws, with emphasis being placed on the determination of net taxable income and the preparation of income tax returns for individuals. Prerequisite: Junior standing.

ACC 3325 Fund Accounting [3-0]  
spring  
The special features of fund accounting as applied to not-for-profit entities, municipalities, school districts and other governmental units. Prerequisite: ACC 2301 with a grade of C or better.

ACC 3326 Accounting Information Systems [3-0]  
fall, spring, summer  
This course prepares the student to succeed in upper-level accounting and business courses that require computer use proficiency. It emphasizes the contemporary computer skills demanded of an accounting professional. It also solidifies the student's knowledge of the accounting cycle and accounting controls. Prerequisite: ACC 2302 with a grade of C or better.

ACC 3327 Fundamentals of Auditing [3-0]  
fall, spring, summer  
A survey of auditing standards and procedures applied by public accountants and internal auditors in examining financial statements and verifying underlying data. The scope of this course includes elements of operational auditing. Prerequisite: ACC 3322 with a grade of C or better and credit or concurrent enrollment in ACC 3326 or CIS 3390.

ACC 3328 Quantitative Methods in Accounting [3-0]  
fall or spring  
Topics include cost allocations, process costing with spoilage and scrap losses, decentralization, inventory control, mix-and-yield variance analysis and quantitative subject areas such as linear programming and regression analysis. Prerequisites: ACC 2302 and QUMT 2341 or QUMT 3343.

ACC 3329 Intermediate Accounting III [3-0]  
fall, spring  
This course continues the examination of the accounting process with emphasis on equity accounts of corporations and partnerships; coverage also includes accounting for income taxes, and comprehensive income. Prerequisite: ACC 3322 with a grade of C or better.

ACC 3350 International Accounting [3-0]  
fall, spring

This course examines the similarities and differences between selected U.S. and International Accounting Standards. It also examines the effects of socio-economic and cultural factors on the development of accounting standards in different regions of the world. Finally, this course explores the role of IASB in the international standard setting process. Prerequisites: ACC 3321 and INTB 3330.

ACC 4323 Contemporary Accounting Theory [3-0]  
fall or summer

A study of the theory and techniques of accounting for investments in the stock of other companies with emphasis on long-term investments with consolidated financial statements. Prerequisite: ACC 3322 with a grade of C or better.

ACC 4329 Corporate and Partnership Taxation [3-0]  
fall, spring

Comprehensive analysis of federal income tax consequences applicable to business entities. Tax law topics for regular Subchapter C and Subchapter S corporations and partnerships will be discussed. Multistate and international tax topics may also be covered. Prerequisite: ACC 3323.

ACC 4330 Advanced Accounting I [3-0]  
fall, spring

A study of the theory and techniques of accounting for investments in the stock of other companies with emphasis on long-term investments with consolidated financial statements. Prerequisite: ACC 3322 with a grade of C or better.

ACC 4331 Advanced Accounting II [3-0]  
fall, spring

A study of selected accounting topics. This course will have variable content and may be repeated for credit with consent of instructor. Prerequisite: ACC 3322 with a grade of C or better.

ACC 4332 Advanced Income Tax Research [3-0]  
fall, spring

A course to acquaint the student with the organization of the Internal Revenue Service and its relation to practice, tax research techniques and ethical tax advice and reporting. Prerequisite: ACC 3323.

ACC 4333 Estate and Gift Taxation [3-0]  
fall, spring

Topics related to estate, gift and trust taxation will be included. Integration of these taxes with income taxes and personal financial plans also will be explored. Prerequisite: ACC 3323.

## Anthropology

ANTH 1323 Introduction to Cultural Anthropology [3-0]

fall, spring

An introduction to cultural anthropology. Major aspects of culture (social organization, economics, religion, etc.), cultural patterns, cultural processes, cultural diversity and sociocultural change are examined in the context of historical development, contemporary societal conditions and multiculturalism using appropriate methodological and theoretical analyses.

ANTH 1324 Human Evolution [3-0]  
fall, spring

An introduction to human biological and cultural evolution, hominid morphology, human variation and prehistoric development, done in the context of historical development and multiculturalism using appropriate scientific methodologies and theoretical bases.

ANTH 1342 Introduction to Archaeology [3-0]  
fall, spring

General introduction to the field of archaeology. Emphasis on methodology of data collection and analysis plus a comprehensive review of major archaeological discoveries as they reflect understanding of diverse historical and cultural development of both ancient and modern societies.

ANTH 1353 Introduction to Folklore [3-0]  
fall, spring

General introduction into the field of folklore. Emphasis on data collection, preservation, analysis and interpretation of such themes as folk music, narrative, drama, art, ethics, medicine and material culture, accomplished using appropriate social sciences methodologies and theories of folklore set in a historical and multicultural context.

ANTH 1354 The Anthropology of Expressive Culture [3-0]

fall, spring and as scheduled

The examination of language of human expressive culture in a multicultural perspective. The course reviews such topics as human tradition, folkways, folk literature and poetry, folk drama, indigenous literature, architecture and religious expressions. The objective of this course is to expand the student's knowledge of the human condition and human cultures, especially in relation to behaviors, ideas and values articulated in the language of expressive behavior.

ANTH 2401 Basic Statistics for Anthropologists [3-3]

fall, spring and as scheduled

A practical study of the procedures used in handling psychological and sociological data including descriptive statistics, central tendency, variation, correlation and inference. Equivalent course: may be counted as PSY 2401; a student may receive credit in only one course. Prerequisites:

MATH 1340 and six hours from the following: ANTH 1323, ANTH 1324, ANTH 1342, PSY 1310.

ANTH 3323 Mexican-American Culture [3-0]  
fall, spring

This course is concerned with the culture and tradition of Mexican-Americans. The cultural history, organization of the family, traditions, lifestyle, kinship patterns, values and social organization of Mexican-American culture will be emphasized. Prerequisite: ANTH 1323 or consent of instructor.

ANTH 3333 United States and  
Other World Cultures [3-0]  
fall, spring and as scheduled

This course is concerned with the many aspects of human culture including traditions, customs, folkways and religious beliefs on local, national and worldwide levels. It explores topics ranging from roles and responsibilities within the family unit to the interaction of different cultures with their social and physical environment. 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. Prerequisite: Three hours from any of these areas: anthropology, economics, psychology or sociology, or consent of instructor.

ANTH 3343 Museum Studies [3-0]  
fall, spring, summer

Provides students with practical, hands-on experience through active participation in museum work alongside museum professionals. While performing a variety of tasks, each student will receive instruction concerning key features common to all museums such as policies and procedures; artifact cataloging, care and conservation; exhibit preparation; and education programs and publicity. May be repeated for a total of six hours credit, but no more than 12 hours credit may be earned through any combination of internship courses. Prerequisite: Six hours of anthropology or consent of instructor.

ANTH 3344 Archive Studies [3-0]  
fall, spring, summer

Students have the opportunity to gain practical, firsthand experience by actively working alongside professionals within a variety of archival situations. While working with collections as diverse as photographic archives, historic documents and newspapers and the computerized Rio Grande Valley Folklore Archive, each student will receive instruction in proper policies and procedures for the collection, study, cataloging and conservation of archive materials. May be repeated for a total of six hours credit, but no more than 12 hours credit may be earned through any combination of internship courses. Prerequisite: Six hours of anthropology or consent of instructor.

ANTH 3345 Anthropology Community  
Internship [0-0-3]  
fall, spring, summer

Students have the opportunity to gain practical experience

working in a community organization, government agency or business enterprise related to their career goals. Students work closely with agency staff and perform a variety of tasks essential to the mission and goals of the organization. Interns are considered professional staff and participate in staff meetings, conduct research, analyze data or other tasks deemed useful by the organization. By working closely with other professionals at the site, students learn firsthand how anthropological concepts and skills can be used to understand social problems in their community. Student evaluation by weekly journal, agency report and meetings with internship coordinator. May be repeated for a total of six hours credit, but no more than 12 hours credit may be earned through any combination of internship courses. Prerequisite: Six hours of anthropology or consent of instructor.

ANTH 3363 Archaeological Method  
and Theory [3-0]

spring, even years

Reviews major theoretical orientations from a historical perspective with an emphasis on current approaches. Examines major aspects of archaeological methodology including excavation and laboratory procedures, sampling strategy, dating techniques and floral and faunal analysis. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 3375 Mexican-American Folklore [3-0]  
spring

This course is designed to introduce Mexican-American folklore. The course includes the study of Chicano legends, folk tales, riddles, folk music, ballads and festivals. Students have the opportunity to learn how to collect and archive folklore materials. Prerequisite: ANTH 1353 or consent of instructor.

ANTH 3380 Social Anthropology [3-0]  
fall, spring and 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. Prerequisites: ANTH 1323 or ANTH 2323 or consent of instructor.

ANTH 4302 Primate Behavior [3-0]  
spring, odd years

A review of the behavior of selected representatives of the order primates, based upon research conducted both in the laboratory and in the field. In addition, students will collect and analyze data on a representative primate group at the Gladys Porter Zoo in Brownsville. Equivalent course: may be counted as PSY 4302; a student may receive credit for only one course. Previous course number: ANTH 3384; a student may receive credit for only one course. Prerequisites: PSY 1310 and PSY 3383, or ANTH 1324 or consent of instructor.

ANTH 4309 Anthropology of Women [3-0]  
fall

This course is concerned with anthropological studies done by women and about women, and studies of gender roles and gender inequality beginning in the late 19th century. Employing a historical perspective, it encourages critical assessment of gender studies and uses cross-cultural studies to focus on gender in certain aspects of social life. Prerequisites: ANTH 1323 or consent of instructor.

ANTH 4345 Anthropological Theory and Methodology [3-0]

fall, spring  
Instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology. Prerequisite: Six hours of anthropology.

ANTH 4348 Peoples and Cultures of Mexico [3-0]  
spring, odd years

This course provides an introduction to the diverse peoples and cultures of Mexico and Central America. The traditions, beliefs and practices of different cultures will be examined through an emphasis on the ethnography and ethno-history of indigenous cultures of the region. Prerequisite: Six hours of anthropology or consent of instructor.

ANTH 4350 Mexican-American Folk Medicine [3-0]  
as scheduled

This course is concerned with popular medical traditions found among Mexicans and Mexican-Americans. It identifies influences from European and Native American sources, and examines ongoing changes in the folk medical landscape. Prerequisites: ANTH 1323 or ANTH 2323 or ANTH 1353 or consent of instructor.

ANTH 4353 Folklore of the Lower Rio Grande Valley [3-0]

fall, even years on an arranged basis  
A field research approach to the folklore of the Valley. A review of the legends, fairy tales, ballads, proverbs, riddles and folk life of the Lower Rio Grande Valley. Prerequisites: ANTH 1353 or ANTH 3375 and consent of instructor.

ANTH 4355 Psychology and Mythology [3-0]  
fall, spring and as scheduled

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. Equivalent course: PSY 4355; a student may receive credit in only one course. Prerequisite: ANTH 1323, ANTH 1353, PSY 1310 or consent of instructor.

ANTH 4365 Archaeology of South America [3-0]  
fall, odd years

A study of the prehistory of South America, with an emphasis on the Andean area. Cultural development will be traced from the time of the first inhabitants through the Incas. The development of complex societies leading up to

the Incas will be emphasized. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 4369 Archaeology of Mexico and Central America [3-0]

fall, even years  
A study of the prehistory of Mexico and Central America beginning with the first cultures to inhabit the area and ending with the arrival of the Spanish. Major civilizations of the area, including the Olmecs, Mayas and Aztecs, will be emphasized. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 4373 The Archaeology of Ancient Egypt [3-0]

spring  
A study of the prehistory and history of ancient Egypt from the time of the first inhabitants in the area to the arrival of the Romans. Emphasis will be placed on the architectural and artistic achievements of Egypt during the time of the pharaohs. Aspects of ancient Egyptian social classes and religious beliefs and practices will also be explored. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 4374 Archaeology of North America [3-0]  
spring, odd years

A study of the prehistory of North America north of Mexico. The course deals with cultural development from the time of the initial peopling of the New World until the arrival of Columbus. Major cultural developments in the southwestern and eastern United States will be emphasized. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 4385 Topics in Anthropology [3-0]  
as arranged

Topics are varied according to availability of faculty and student interest. Course can be repeated as topics change. Prerequisites: Six hours of anthropology and consent of instructor.

ANTH 4395 Fieldwork in Anthropology [3-0]  
as arranged

Students gain practical experience by participating in anthropological research projects that involve fieldwork. Each student will work closely with one or more professionals. This will enable students to receive both instruction about the specific topic under investigation and practical experience in applying appropriate field research methods. May be repeated for a total of nine hours credit as topics change. Prerequisites: Six hours of anthropology and consent of instructor.

# Art

ART 1301 Art Appreciation [3-0]  
(Texas Common Course Number is ARTS 1301.)  
fall, spring, summer  
Values and meanings in the visual arts. This is a general art lecture course concentrating on development and differences in artistic style.

ART 1302 Art of Our Time [3-0]  
fall, spring, summer  
This course will function as an alternative to Art Appreciation 1301 and will offer students a grounding in issues in contemporary art and culture.

ART 1311 Drawing I [2-4]  
(Texas Common Course Number is ARTS 1316.)  
fall, spring, summer  
Introduction to drawing, including work in a variety of drawing media. Basic concepts are explored. A minimum of three hours of outside assignments per week is required. \$4 laboratory fee.

ART 1332 Typography [2-4]  
fall, spring, summer  
The fundamentals of typography and typographic design are explored in experimental and practical projects. The study of typefaces as communication vehicles will be stressed. Students will explore visual texture, pattern, hierarchy, rhythm and the emotional quality of composition plus the development of concept, content, and execution. Prerequisites: None. \$4 laboratory fee.

ART 1333 Digital Media [2-4]  
fall, spring, summer  
This course introduces students to digital imaging processes. It covers a wide range of topics such as video, animation, image making and time-based media. Prerequisite: None.

ART 1334 Design I [2-4]  
fall, spring, summer  
Principles of design and development of design structures on two-dimensional surfaces. A minimum of three hours of outside assignments per week is required.

ART 1335 Design II [2-4]  
fall, spring, summer  
Three-dimensional design includes investigation into phenomena existing in the three-dimensional arts. A variety of materials handling and creative methods for the purposes of creating three-dimensional forms will be considered. A minimum of three hours of outside assignments per week is required.

ART 2303 Jewelry/Metalworking I [2-4]  
(Texas Common Course Number is ARTS 2341.)  
fall, spring, summer  
Instruction is given in the use of hand tools, metals handling

and creative use of shop equipment. Emphasis is on creative artistic expression focusing on jewelry as a portable art form. Other materials are considered. A minimum of three hours of outside assignments per week is required. \$4 laboratory fee.

ART 2321 Painting I [2-4]  
as scheduled  
Students will acquire the required fundamental skill set for the exploration of painting's diverse aesthetic possibilities through study of basic techniques, color theory, media, formal design components, and historic context, while attaining mastery regarding rudimentary issues and professional practices of painting at an introductory level. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 1311

ART 2332 Design II [3-0]  
(Texas Common Course Number is ARTS 1312.)  
spring, summer II  
Three-dimensional design includes investigation into the phenomena existing in the three-dimensional arts. A variety of materials handling and creative methods for the purposes of creating a three-dimensional form are considered. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 1331. \$4 laboratory fee.

ART 2341 Sculpture I [2-4]  
(Texas Common Course Number is ARTS 2326.)  
fall, spring, summer  
Introductory course in sculptural concepts through basic sculptural media. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 1335. \$4 laboratory fee.

ART 2351 Ancient Art of the West [3-0]  
(Texas Common Course Number is ARTS 1303.)  
fall, spring, summer  
Historical survey of western civilization's plastic arts from Paleolithic up to 1000 A.D. Prerequisites: None.

ART 2352 Western Art 1000-1840 A.D. [3-0]  
(Texas Common Course Number is ARTS 1304.)  
fall, spring, summer  
Historical survey of western civilization's plastic arts from the Romanesque through Neo-Classicism and Romanticism. Prerequisites: None.

ART 2353 Modern Art since 1840 [3-0]  
fall, spring, summer  
Historical survey of the plastic arts of modern western civilization from Realism onward. Prerequisite: None.

ART 2361 Printmaking I [2-4]  
(Texas Common Course Number is ARTS 2333.)  
fall, spring, summer  
Introduction to printmaking as a means of personal expression and aesthetic communication. Relief printing in several forms, as well as mono-printing and silk screen printing will be emphasized. Other printmaking processes will be discussed. Prerequisites: \$4 laboratory fee.

- ART 2371 Ceramics I [2-4]  
(Texas Common Course Number is ARTS 2346.)  
fall, spring, summer  
Introduction to ceramic design concentrating on hand building. Some work with potter's wheel, glazing and firing. A minimum of three hours of outside assignments per week is required. \$4 laboratory fee.
- ART 3302 Jewelry/Metalworking II [2-4]  
fall, spring, summer  
Continuation of jewelry/metalworking processes with an emphasis on advanced techniques. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 2303 Jewelry/Metal Working I. \$4 laboratory fee.
- ART 3303 Jewelry/Metalworking III [2-4]  
fall, spring, summer  
Introduction of additional techniques in silversmithing such as raising and production methods. These are pursued in the production of expressive metal works. Additional materials are considered. A minimum of three hours of outside assignments per week is required. May be repeated twice for up to nine credit hours. Prerequisite: ART 2303, ART 3302. \$4 laboratory fee.
- ART 3310 Drawing II [2-4]  
fall, spring, summer  
Introduction to figure drawing, including working in a variety of drawing media. Basic concepts are explored. A minimum of three hours of outside assignments per week are required. Prerequisite: ART 1311
- ART 3311 Drawing III [2-4]  
fall, spring, summer  
Advanced concepts in drawing; these may include conceptual issues, spatial relationships, interpretation of source reference materials, experimental surfaces and/or other nontraditional directions and/or materials. May be repeated twice for up to nine credit hours. Prerequisite: ART 1311, ART 3310
- ART 3320 Painting II [2-4]  
fall, spring, summer  
Students will acquire the required fundamental skill set for the exploration of painting's diverse aesthetic possibilities through study of basic techniques, color theory, media, formal design components, and historic context, while attaining mastery regarding rudimentary issues and professional practices of painting at an introductory level. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 2321
- ART 3321 Painting III [2-4]  
fall, spring, summer  
Advanced studio problems in painting. A minimum of three hours of outside assignments per week. (May be repeated for a total of 9 hours credit.) Prerequisites: ART 2321, ART 3320. \$4 laboratory fee.
- ART 3330 Image and Illustration [2-4]  
fall, spring, summer  
This course explores coherent visual statements to illustrate problems generated by multiple media. An emphasis is placed on helping students develop an individual visual language that is then utilized in the illustration process. Assignments focus on exploration and understanding of traditional and digital media. Prerequisite: Sophomore standing. \$4 laboratory fee.
- ART 3331 Visual Communications [2-4]  
fall, spring, summer  
This course will explore the translation of verbal language into visual language through a variety of media. Course introduces basic design concepts, including the use of image, symbol and color in visual communication as well as the principles of typographic composition, message structure, and human perception. Prerequisites: Sophomore standing. \$4 laboratory fee.
- ART 3332 Digital Image Processing [2-4]  
fall, spring, summer  
In the contemporary landscape of photography, students learn approaches to techniques and methods for the production and distribution of digital images. They will gain knowledge in advanced protocol, constructions, digital concepts and state of the art approaches to image making. A minimum of three hours outside work per week is required. Prerequisites: ART 1333 and ART 1334.
- ART 3333 Design and Production [2-4]  
fall, spring, summer  
This course covers the terminology and process of preparing designs for commercial printing. The preparation of art and design stresses attention to detail and introduces the principles of prepress associated with the printing industry. Students complete basic to complex electronic documents that include a broad spectrum of the printing process. Prerequisites: Sophomore standing. \$4 laboratory fee.
- ART 3334 Photography as an Art Form [2-4]  
fall, spring, summer  
Advanced photography as a means of personal expression. Emphasis on black and white processes. Students must provide own 35mm camera. A minimum of three hours outside work per week is required. May be repeated twice for a total of nine credit hours. Prerequisite: ART 1331, ART 1333, ART 3332.
- ART 3335 Communication Design I [2-4]  
fall, spring, summer  
This class merges learning in digital applications with design practices. Taking conceptually based ideas from the sketch process to screen media, students will gain an understanding of the computer graphic packages currently in use. They will experience the typical workflow of a design environment, where graphic programs are used in unison, each making their contribution to resolve the complete design. Prerequisites: Sophomore standing. \$4 laboratory fee.



ART 3336 Communication Design II [2-4]  
fall, spring, summer  
Building on the knowledge of Communication Design I, students will continue to merge graphic design skills with computer learning. Projects that emphasize an interweaving of graphic programs, including file management, collateral design and production will be stressed. Emphasis is placed on typesetting, movement and multiple page layout. Aspects of publication design are explored. Prerequisites: ART 3335. \$4 laboratory fee.

ART 3337 Type Design [2-4]  
fall, spring, summer  
Further exploration of type as a creative medium and carrier of communication. Experimental approaches to the use of type and to various media, including movement and interactivity, will promote the development of a high level of typographic skill. Prerequisites: ART 1332 and Junior standing. \$4 laboratory fee.

ART 3338 Ideas and Styles [3-0]  
fall, spring, summer  
A theoretical course surveying design from the Pre-Industrial era (1450) to the present. Includes an exploration of the relationship of graphic design to movements in art, architecture, product design and the collective influence of these movements on western culture. Topics include technological, conceptual, and social implications conveyed in design from early communication processes to the Digital Age. The study of individual designers, groups, and manifestos in collaboration with research and practical assignments will be explored. Prerequisites: Sophomore standing. \$4 laboratory fee.

ART 3341 Sculpture II [2-4]  
fall, spring, summer  
Emphasis on individual development. Consideration of additional media for sculptural expression. A minimum of three hours per week of outside assignments is required. Prerequisite: ART 1335, ART 2341. \$4 laboratory fee.

ART 3351 Pre-Hispanic Mesoamerican  
Art and Architecture [3-0]  
fall, spring, summer  
An in-depth survey of Mesoamerican art and architecture from the Olmecs to the Maya and the Aztecs, emphasizing masterpieces of high aesthetic quality. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.

ART 3356 Arts of the West to 1400 A.D. [3-0]  
fall, spring, summer  
A comprehensive examination of the major artistic and architectural achievements of western civilization from Paleolithic through Gothic. Prerequisite: This course is for B.F.A. Studio Art, B.A. All-Level Certification, and non-Art major students only. Prerequisite: Sophomore-level standing

ART 3357 Mexican and Caribbean  
Viceregal Art and Architecture [3-0]  
fall, spring, summer  
An in-depth survey of the Spanish colonial art and architecture of the North American continent from Texas and New Mexico in the north to Guatemala and the Dominican Republic in the south. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.

ART 3358 Andean Pre-Hispanic Art  
and Architecture [3-0]  
fall, spring, summer  
An in-depth survey of the Pre-Hispanic art and architecture of Peru, Bolivia, Ecuador, and Colombia, 4000 B.C. - 1530 A.D. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.

ART 3359 South American Viceregal  
Art and Architecture [3-0]  
fall, spring, summer  
Covering the period 1530 through 1825, this course emphasizes the finest art and architectural achievements of the central Andean nations of Peru, Bolivia and Ecuador, with some material on Brazil, Colombia, Venezuela, Paraguay, Argentina, and Chile. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.

ART 3361 Printmaking II [2-4]  
fall, spring, summer  
Work in the lithographic printmaking process. Emphasis on the planographic system of producing multiple images within the framework of the printmaking process. Prerequisite: ART 1334. ART 2361. \$4 laboratory fee.

ART 3362 Printmaking III [2-4]  
fall, spring, summer  
Introduction to intaglio printmaking process. The student will be exposed to the etching and drypoint technique, along with the use of different ground. A minimum of three hours outside work per week is required. May be repeated twice for up to nine credit hours. Prerequisite: ART 3361. \$4 laboratory fee.

ART 3371 Ceramics II [2-4]  
(Texas Common Course Number is ARTS 2347.)  
fall, spring, summer  
Emphasis on basic wheel-thrown shapes and introduction to glaze calculation. A minimum of three hours outside assignments per week is required. Prerequisite: ART 1335, ART 2371. \$4 laboratory fee.

ART 3372 Ceramics III [2-4]  
fall, spring, summer  
Advanced studio problems in ceramics. A minimum of three hours of outside assignments per week is required. May be repeated twice for a total of nine credit hours. Prerequisite: ART 3371. \$4 laboratory fee.

- ART 3381 Perception and Expression in Art I [3-0]  
fall, spring, summer  
A course designed to strengthen visual perception and divergent thinking through visual and conceptual stimuli with primary emphasis on studio activities. Prerequisite: Junior standing.
- ART 3382 Perception and Expression in Art II [3-0]  
spring and as scheduled  
Emphasis on further in-depth studio development. Prerequisite: ART 3381 or permission of instructor. Recommended for certification requirements.
- ART 3383 Creative and Critical Thinking [3-0]  
fall  
The course offers discussion and exercises in synectics, brainstorming and analytical thinking. A topology of creative behavior development is presented along with spatial exercises. Mini-workshops dealing with studio areas not regularly taught at this campus are offered. This may include serigraphy, fiber, textiles, photography and collograph. Prerequisite for student teaching. Prerequisite: Junior standing.
- ART 3396 Contemporary Art [3-0]  
fall, spring, summer  
Contemporary Art is a seminar that covers issues faced and presented by contemporary artists globally. The focus of the course is intended to develop advanced discourse and thought, and to give students the opportunity to develop the language and knowledge to engage in critical discussions of the material presented in class. Students will research and present artists and articles found in appropriate art journals and periodicals as well as review exhibitions. Prerequisites: None.
- ART 4303 Jewelry/Metalworking IV [2-4]  
as scheduled  
Personal development in metals/jewelry. A minimum of three hours of outside assignments per week is required. This course may be repeated for a total of 12 hours credit. Prerequisite: ART 3303. \$4 laboratory fee.
- ART 4311 Drawing IV [2-4]  
as scheduled  
Topics covered include advanced problems in drawing to be determined by the instructor. A minimum of 3 hours outside assignments per week is required. This course may be repeated for a total of 12 hours credit. Prerequisite: ART 3311.
- ART 4321 Painting IV [2-4]  
as scheduled  
Advanced study in painting, parameters to be determined by the instructor. A minimum of three hours outside work is required. This course may be repeated for a total of 12 hours credit. Prerequisite: ART 3321. \$4 laboratory fee.
- ART 4333 Graphic Design I [2-4]  
fall, spring, summer  
A systematic approach to design problem solving, with a series of studio assignments and critiques relating directly to two- and three-dimensional graphic design. Design concepts are explored in a variety of design problems including "client-designer" relationships and applied to information design strategies, environmental, product, and package design. The course offers the opportunity to develop creative and technical ability by the production of professional assignments. Prerequisite: Junior standing. ART 3335, ART 3336. \$4 laboratory fee.
- ART 4334 Graphic Design II [2-4]  
fall, spring, summer  
A course in which alternative creative communication problem-solving strategies are investigated within a series of advanced problems and intensive critiques relating to graphic design. Shared emphasis on content driven forms and complex problems that require conceptualization and the development towards a personal methodology. Prerequisites: Junior standing, ART 3335, ART 3336, ART 4333. \$4 laboratory fee.
- ART 4336 Multimedia Production and Design [6-0]  
as scheduled  
An introduction to basic hardware/software tools needed to design and create multimedia productions. Skills taught include program logic and problem solving techniques within the context of an authoring tool. Extensive use is made of flow charts, 2-D/3-D animation, motion graphics and storyboarding to create Web and CD-ROM multimedia products. Prerequisites: ART 1332, 3336, 4337, 4338.
- ART 4337 Digital Photography [2-4]  
fall, spring, summer  
Advanced problems in photography. A minimum of three hours of outside assignments per week is required. May be repeated for a total of 12 hours credit. Prerequisites: ART 1331, 1333, 3332.
- ART 4338 Interactive Design [2-4]  
fall, spring, summer  
A studio course in which web sites are designed and implemented using current software. Content and information architecture are considered while building web entities that give prominence to viewer experience. Prerequisites: Junior Standing. \$4 laboratory fee.
- ART 4339 Portfolio [2-4]  
fall, spring, summer  
This course focuses on the development of a professional print and online portfolio. Students will prepare and organize work into a presentable and targeted dossier for use in their future graphic design specialization. A minimum of 3 hours of outside assignments per week is required. Prerequisites: Senior-level standing. \$4 laboratory fee.

- ART 4341 Sculpture III [2-4]  
fall, spring  
Continuation of students' personal direction in sculpture. A minimum of three hours outside work per week is required. (May be repeated for a total of 12 hours credit.) Prerequisite: ART 3341. \$4 laboratory fee.
- ART 4350 Modern Mexican Art 1785-1940. [3-0]  
fall, spring, summer  
An in-depth survey of modern Mexican art from the founding of the San Carlos Academy in Mexico City in 1785 through 1940. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.
- ART 4352 Modern Mexican Art since 1940 [3-0]  
fall, spring, summer  
An in-depth survey of the most recent developments in Mexican art since 1940. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.
- ART 4353 Arts of the West Since 1400 A.D. [3-0]  
fall, spring, summer  
A comprehensive examination of the major artistic and architectural achievements of western civilization from the Renaissance to the present. This course is for B.F.A. Studio Art, B.A. All-Level Certification and non-Art major students only. Prerequisite: Sophomore-level standing.
- ART 4355 Modern Art of South American and the Caribbean [3-0]  
fall, spring, summer  
An in-depth survey of South American and Caribbean art from the 1816 founding of the Brazilian Academy through the present. Most emphasis will be on the nations of Argentina, Brazil, Colombia, Cuba, Uruguay, and Venezuela. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.
- ART 4358 Latino Art History [3-0]  
fall, spring, summer  
The most notable artistic achievements and movements of the United States' peoples of Mexican, Cuban, Puerto Rican, or other Latin American or U.S. Hispanic Borderlands descent since 1920. Prerequisites: ART 2351, ART 2352 and ART 2353 or permission of the instructor.
- ART 4359 Seminar on Topics in Art History [3-0]  
fall, spring, summer  
Variable topics on the different art historical regions, periods, or themes to be taught upon demand. (May be repeated for a total of 6 hours of credit.) Prerequisites: Junior standing and permission of the instructor.
- ART 4361 Printmaking IV [2-4]  
fall, spring, summer  
This course will provide the student with more advanced printmaking processes. The student may pursue previously learned processes in greater depth, or may pursue more experimental directions. This course may be repeated for 12 hours credit. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 3362. \$4 laboratory fee.
- ART 4371 Ceramics IV [2-4]  
fall, spring, summer  
Continuation of Ceramics III. Students are expected to be involved in a personal direction in the use of clay/glaze. May be repeated for a total of 12 hours credit. A minimum of three hours of outside assignments per week is required. Prerequisite: ART 3372. \$4 laboratory fee.
- ART 4383 Art Curriculum [3-0]  
spring  
This course reviews structures of art curriculum at the secondary level. Students will design an art curriculum for the class. There will be an emphasis on curriculum implementation. Prerequisite: senior standing.
- ART 4388 Special Topics [2-4]  
fall, spring, summer  
For the advanced undergraduate, this course may be taken twice if the topic changes. The class is designed to immerse students within an artistic discipline with the opportunity to study a special advanced studio art topic not required in the undergraduate curriculum. Prerequisite: Junior standing or permission of the instructor. (Replaced by ART 4359).
- ART 4391 Individual Problems/Internship/Co-op [3-0]  
fall, spring, summer  
Advanced problems in an art area of the student's choice and/or internship with an art professional in the field of interest. (May be repeated for a total of 12 hours of credit.) Prerequisites: senior standing (for Internship/Co-op); all courses in the area chosen.
- ART 4392 Individual Problems [3-0]  
fall, spring, summer  
Advanced problems in the area of student's choice. Prerequisite: ART 4391.
- ART 4393 BFA Senior Exhibit [3-0]  
fall, spring  
Students will be exposed to the process of how to organize and manage several elements (including; promotional materials, their portfolio, oral presentation, installation, and de-installation of work, and opening night preparation) related to the coordination of a professionally and highly successful art exhibition featuring their artwork. This is the culmination of their studies. Prerequisite: Senior-Level standing. All Upper/Lower division courses must be completed. \$4 laboratory fee.

## Astronomy

ASTR 1401 Introductory Astronomy I [3-3]

(Texas Common Course Number is PHYS 1411.)

fall

A study of basic concepts in astronomy and of the solar system. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. \$4 laboratory fee.

ASTR 1402 Introductory Astronomy II [3-3]

(Texas Common Course Number is PHYS 1412.)

spring

A study of the stellar universe. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. Prerequisite: ASTR 1401. \$4 laboratory fee.

## Bible

BIBL 1310 Old Testament Survey [3-0]

as scheduled

A survey of the history and literature of the Old Testament. Particular emphasis is placed upon the teachings concerning God, man, salvation and social relations; especially those teachings that deal with the preparation for the coming of the Messiah.

BIBL 1311 New Testament Survey [3-0]

as scheduled

A brief survey of the Christian movement in the Mediterranean world during the first Century, the life of Christ, the beginning of the Christian church, the life and letters of Paul and the general development of the New Testament as considered from the historical viewpoint.

## Biology

BIOL 1401 General Biology I [3-3]

(Texas Common Course Number is BIOL 1406.)

fall, spring, summer

A study of the basic principles of biology. Topics will include biological chemistry, cell structure and function, photosynthesis and respiration, DNA structure and function,

mitosis, meiosis, Mendelian genetics and evolution. Credit Restriction: Credit may be received in only one of BIOL 1401 or BIOL 1487. Lab fees charged.

BIOL 1402 General Biology II [3-3]

(Texas Common Course Number is BIOL 1407.)

fall, spring, summer

A study of the basic principles of biology. Topics include evolution and diversity of prokaryotes invertebrate and vertebrate animals; mechanisms of support and movement, digestion and nutrition, respiration, circulation, homeostasis, hormonal control, nervous control, sexual reproduction, development, behavior and ecology. Credit Restriction: Credit may be received in only one of BIOL 1402 or BIOL 1488. Lab fees charged.

BIOL 1487 Honors Biology [3-3]

fall

An accelerated study of the basic principles of biology. Topics covered include cellular biology, photosynthesis, respiration, protein synthesis, cellular reproduction, genetics and microbial genetics. Open to students enrolled in the Honors Studies Program or by consent of instructor. Credit Restriction: Credit may be received in only one of BIOL 1401 or BIOL 1487. \$3 laboratory fee.

BIOL 1488 Honors Biology [3-3]

spring

An accelerated study of the basic concepts of biology. Topics covered include reproduction and development, digestion and nutrition, transport, homeostasis, the nervous system, ecology and evolution. Open to students enrolled in the Honors Studies Program or by consent of instructor. Credit Restriction: Credit may be received in only one of BIOL 1402 or BIOL 1488. \$3 laboratory fee.

BIOL 2201 Special Problems in Biology [1-2]

as scheduled

Study of special topics in biology for freshman- and sophomore-level students. The course will involve the independent study of a specific problem through conferences and activities directed by the instructor. Student must receive approval of instructor for study of specific problem prior to registration.

BIOL 2402 Comparative Vertebrate Anatomy [3-3]

(Texas Common Course Number is BIOL 2428.)

as scheduled

Comparative studies of the morphological, embryological and physiological relationships among vertebrates, with inclusion of histological and paleontological information. Prerequisite: BIOL 1401 (D or higher) and BIOL 1402 (D or higher).

BIOL 2403 Anatomy and Physiology I [3-3]

(Texas Common Course Number is BIOL 2401.)

fall, spring, summer

A study of the structure and function of the human body including cells, tissues and organs of the following systems:

integumentary, skeletal, muscular, nervous system and special senses. Prerequisite: Consent of instructor. Lab fees charged.

BIOL 2404 Anatomy and Physiology II [3-3]  
(Texas Common Course Number is 2402.)  
fall, spring, summer

A continuation of BIOL 2403. Includes endocrine, circulatory, respiratory, digestive, urinary and reproductive systems. Other topics include metabolism, acid-base balance, development and heredity. Prerequisite: BIOL 2403. Lab fees charged.

BIOL 2406 Environmental Biology [3-3]  
fall, spring, summer

This course will study biology with an environmental focus. Students are introduced to ecology, different environmental problems, human impact, and possible solutions. To understand the interaction of humans and the environment, topics such as ecosystems, biotic and abiotic components of the environment, population dynamics and sustainability, energy flow, toxicology, waste production, waste disposal, pollution and others are covered. Government policies and case studies are also presented. Prerequisite: None.

BIOL 3301 Biological Evolution [3-0]  
as scheduled

Genetic, ecological and paleontological aspects of evolution. Includes review of evolutionary history and thought, species concepts, speciation, and other evolutionary processes. Emphasis is on evolutionary mechanisms. Prerequisites: BIOL 1401 and BIOL 1402, or consent of instructor.

BIOL 3302 Biological Writing [3-0]  
fall, spring

Describes, analyzes, critiques and applies the biological writing styles. Writing topics include vitas, professional letters, research/laboratory reports and research proposals. Also focuses on manuscript editing, literature searches and referencing, reviewing published research papers, and data analysis and interpretation.

BIOL 3310 Neurobiology [3-0]  
as scheduled

Studies of nervous systems. Topics range from physiology of single neurons to neural bases of behavior in intact animals. This course emphasizes comparative methods, with examples drawn from a wide range of invertebrates and vertebrates. Prerequisite: BIOL 2403 or 3411.

BIOL 3401 General Microbiology [3-3]  
fall, spring

A general survey of the field of microbiology with emphasis on bacteria. Topics will include structure, growth, reproduction, metabolism, genetics and taxonomy of bacteria; a general survey of fungi, algae, protozoa and viruses and microbiology of soil, water, foods and industry. Laboratory work will include staining, growing, biochemistry, characterization and control of bacteria with a general survey of other microorganisms. Prerequisites: BIOL 1401 and BIOL 1402; CHEM 1301, CHEM 1101, CHEM 1302 and

CHEM 1102. Lab fees charged.

BIOL 3403 Medical Microbiology  
and Immunology [3-3]  
spring

A study of microorganisms that cause disease and immune responses of the host to these pathogens. Emphasis will be on principles of immunology and selected infectious disease processes. Laboratory exercises will include a study of basic serologic procedures and cultural characteristics of related pathogenic microorganisms. Prerequisite: BIOL 3401. Lab fees charged.

BIOL 3404 Conservation Biology [3-3]  
fall, spring, summer

This course provides a scientific foundation for resource management efforts aimed at conserving, restoring, and sustaining the biological diversity in habits. Biological diversity includes genetic variation among individuals and populations; species richness and abundance; habitat heterogeneity and all of the interactions that determine the distribution and abundance of species. Prerequisite: BIOL 2305 and BIOL 3409. Lab fees charged.

BIOL 3405 Histology [3-3]  
fall

Lectures will place major emphasis on the structure and function of major tissue types and their cellular components. The laboratory will provide an opportunity for firsthand experience in examining the microscopic structure of the major tissue types and their relationships in organ structure. Prerequisites: Twelve hours of biology including four hours from BIOL 2401, BIOL 2402 or BIOL 2403. Lab fees charged.

BIOL 3406 Developmental Mechanisms [3-2]  
spring

Study of processes that lead to the diversity of animal and plant morphologies with an emphasis on mechanisms of pattern induction at the molecular level. Lectures will focus on common patterns and novel adaptations from a comparative point of view, while laboratories will give students experience in a variety of fundamental protocols using *Drosophila* as a model.

Prerequisite: BIOL 3412 or Instructor's approval. Lab fees charged.

BIOL 3407 Comparative Embryology [3-3]  
fall, spring

Developmental studies from the zygote through embryological stages (chiefly concerned with amphibians, birds and mammals). Prerequisites: nine hours of biology, including four hours from BIOL 2401, BIOL 2402 or BIOL 2403. BIOL 3413 recommended. Lab fees charged.

BIOL 3408 Plant Morphology [3-3]  
as scheduled

A study of the morphology, development and relationships of fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Particular attention is given to the evolution of

- these groups. Prerequisite: nine hours of biology, including BIOL 1402. Lab fees charged.
- BIOL 3409 Ecology [3-3]  
fall, spring  
A study of the basic environmental factors affecting plants and animals, and their relation to economic and conservation problems. Fieldwork. Prerequisite: Twelve hours of biology. Lab fees charged.
- BIOL 3410 A Survey of the Plant Kingdom [3-3]  
as scheduled  
A study of the anatomy and physiology of plants, based on the study of higher plants, together with a correlative and comparative survey of the plant kingdom. Emphasis will be placed on the development and reproduction of plants and their relationships to man. Lab fees charged.
- BIOL 3411 Mammalian Physiology [3-3]  
as scheduled  
A survey of the physiological mechanisms of the organs and organ systems of mammals with emphasis on man. The laboratory will provide experiences with modern techniques. Topics will include muscle, nerve, digestive, urinary, respiratory, circulatory and reproductive systems. Prerequisites: Twelve hours of biology, including four hours from BIOL 2401, BIOL 2402 or BIOL 2403 and eight hours of chemistry. Lab fees charged.
- BIOL 3412 Cell Biology [3-3]  
fall  
A study of cell structure and function with emphasis on bioenergetics, membranes, genes and genetic control, cell division and its regulation and cellular differentiation. Prerequisites: BIOL 1401 and BIOL 1402; CHEM 2102 and CHEM 2302. Lab fees charged.
- BIOL 3413 Genetics [3-3]  
fall, spring  
Introductory lectures and laboratories in classical genetics. Topics will include Mendelian genetics, cell mechanics, sex determination, sex linkage, DNA structure and function, genetic linkage, crossing over, gene mapping, mutation, regulation of gene expression, chromosomal variations, population genetics and evolution. Prerequisites: BIOL 1401 and BIOL 1402; CHEM 1301, CHEM 1101, CHEM 1302 and CHEM 1102. Lab fees charged.
- BIOL 3414 Invertebrate Zoology [3-3]  
fall  
Study of the comparative morphology, evolution, systematics and natural history of the invertebrates. Recommended as a preparatory course for BIOL 4402, BIOL 4407, BIOL 4415 and BIOL 5316. Prerequisites: six hours of biology and junior standing. Lab fees charged.
- BIOL 3415 Molecular Biology [3-3]  
as scheduled  
A study of the structure and function of biological macromolecules as they relate to the functioning of whole cells and organisms. Topics include structure and function of nucleic acids and proteins, DNA replication and repair, transcription, translation, gene regulation, genetic engineering, applications of molecular technologies and biotechnologies, bacteriophages, and mobile genetic elements. Prerequisites: BIOL 3413 or BIOL 3401 or BIOL 3412 and CHEM 2302 / 2102. Lab fees charged.
- BIOL 4100 Biology Seminar [1-0]  
fall, spring  
A study of current biological literature and the discussion of research in progress. Required of all biology majors in their senior year; open to non-majors by permission only.
- BIOL 4201 Biology Problems I [1-2]  
as scheduled  
A course adapted to the study of special topics in biology. For advanced students capable of developing a problem independently through conference and activities directed by the instructor. The problem is chosen by the student with the approval of the instructor prior to registration. This course is a prerequisite for BIOL 4202. This course may be repeated up to four times.
- BIOL 4202 Biology Problems II [1-2]  
as scheduled  
A course adapted to the study of special topics in biology and a continuation of BIOL 4201. For advanced students capable of developing a problem independently through conference and activities directed by the instructor. The problem is chosen by the student with the approval of the instructor prior to registration. Prerequisite: BIOL 4201. This course may be repeated up to four times for credit.
- BIOL 4303 Mammalogy [2-3]  
spring  
A study of anatomy, evolution, distribution, systematics, ecology and physiology of mammals of North America, with special emphasis on local forms. Prerequisite: nine hours of biology. Lab fees charged.
- BIOL 4304 Ichthyology [2-3]  
fall  
A study of ecology, distribution, adaptations, physiology, systematics and evolution of freshwater and marine fishes, with an emphasis on local forms. Laboratories will stress identification and other practical applications of modern ichthyological techniques. Prerequisite: nine hours of biology. Lab fees charged.
- BIOL 4315 Inquiry-Based Science and Laboratory Techniques [2-3]  
spring  
Designed for students interested in teaching secondary life sciences to provide additional preparation and skills to become an effective high school life sciences teacher. The course will emphasize the inquiry-based approach to science and cover mechanisms to apply this approach in lecture, lab and in assessment of content. Prerequisite: Students should enroll in the course during the semester in which they are finishing degree plan coursework and prior to the internship.

Consent of instructor required. Lab fees charged.

BIOL 4317 Disease Epidemiology [3-0]  
fall, spring, summer  
An introduction to the principles of epidemiology. Emphasis on ecological and evolutionary factors affecting disease processes. Both historical and current epidemics will be examined. Prerequisites: BIOL 3301 or BIOL 3413.

BIOL 4318 Ethnobotany [3-0]  
fall, spring, summer  
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 4319 Medical Entomology [3-0]  
fall, spring  
Study of the 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. Prerequisites: 8 hours of introductory biology (and recommended BIOL 3414 or BIOL 4414) or permission of instructor.

BIOL 4330 Molecular Evolution [3-0]  
fall  
An examination of recent and current techniques in phylogenetic inference, population genetics and molecular evolution. The course will focus on both the theory and practical application of these techniques through review of seminal studies and a hands on approach to gathering, processing and analyzing data for a group of genes or organisms of each student's choice. Prerequisite: BIOL 3301 or BIOL 3413 or Instructor's approval.

BIOL 4387 Inquiry-Based Science [2-3]  
(Honors Plan)  
spring  
Applications of inquiry in science, and an interdisciplinary approach to problem-solving. Consent of instructor required. Lab fees charged.

BIOL 4402 Marine Zoology [3-3]  
summer  
A study of the common marine animals, especially invertebrates in coastal waters. Particular attention is given to structural and physiological relationships. Strenuous field work required. Students must provide their own transportation to and from South Padre Island or other field trip sites. Prerequisites: Nine hours of biology (BIOL 3414 recommended) and junior standing. Lab fees charged.

BIOL 4403 Introduction to Remote Sensing Technology [3-3]  
spring  
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. Lab fees charged.

BIOL 4404 General Virology [3-3]  
This is a comprehensive course covering aspects of human, animal and plant virology. The course emphasizes current research on the genome and replication of viruses, functions and regulations of viral genes, molecular mechanisms of virus-host and virus-vector interactions and novel molecular control strategies. The course will also cover prions and several sub-viral pathogens including viroids, virusoids and satellite RNA. Prerequisite: BIOL 3401. Lab fees charged.

BIOL 4405 Plant Physiology [3-3]  
as scheduled  
An introduction of the basic principles of the physiology, growth and development of plants. Prerequisite: Six hours of biology. Lab fees charged.

BIOL 4406 Mycology [3-3]  
as scheduled  
This course will provide training in the following areas: fungal morphology and taxonomy, structure and function relationships, physiology and genetics, molecular biology, parasitism of animals and plants, applied and environmental mycology. Prerequisites: BIOL 1401 and 1402; BIOL 3401, 3412 or 3413. Lab fees charged.

BIOL 4407 Animal Parasitology [3-3]  
spring  
Introduction to study of parasitic protozoa and worms (especially trematodes, cestodes, nematodes and acanthocephala). Prerequisites: Nine hours of biology, including four hours from BIOL 2401, BIOL 2402, BIOL 2403 or BIOL 3414, and junior standing. Lab fees charged.

BIOL 4408 Plant Pathology [3-3]  
as scheduled  
An introductory course on the causes, nature and control of plant diseases. Emphasis will be given to diseases of plants of economic importance. Prerequisite: Six hours of biology. Lab fees charged.

BIOL 4409 Herpetology [3-3]  
as scheduled  
A study of anatomy, evolution, distribution, systematics, ecology and physiology of amphibians and reptiles; primarily of North American species, with special emphasis on local forms. Prerequisites: BIOL 1401 (D or higher) and BIOL 1402 (D or higher). Lab fees charged.

- BIOL 4410 Marine Botany [3-3]  
as scheduled  
A study of the common local marine flora including microscopic and macroscopic algae, sea grasses and terrestrial angiosperms. Students are expected to furnish their own transportation to field laboratory sessions at South Padre Island. Prerequisite: Nine hours of biology, including BIOL 1402. Lab fees charged.
- BIOL 4411 Ecological Physiology of Animals [3-3]  
as scheduled  
A comparative study of the physiological adaptations of vertebrate animals to their environments. Emphasis is placed on the physiological basis of animal distribution and evolution. Prerequisite: BIOL 1401 (D or higher) and BIOL 1402 (D or higher). Lab fees charged.
- BIOL 4412 Ornithology [3-3]  
as scheduled  
Principles of avian classification, morphology and ecology, including migration, distribution and relationships to man. Fieldwork. Prerequisite: Nine hours of biology, including four hours from BIOL 2401, BIOL 2402 or BIOL 2403. Lab fees charged.
- BIOL 4414 Plant Taxonomy [2.5-2.5]  
fall  
Identification of vascular plants, with emphasis on native flowering plants. Prerequisites: BIOL 1401 and 1402 (or equivalents). Lab fees charged.
- BIOL 4415 Entomology [3-3]  
spring  
An introduction to the study of insects and other arthropods of agricultural, medical and veterinary importance. Includes basic insect morphology, physiology, classification and pest management. Laboratory consists of insect identification supported by field trips. Prerequisite: BIOL 3414 Lab fees charged.
- BIOL 4416 Environmental Toxicology [3-3]  
fall  
A survey of interaction of environmental pollutants with living systems. Laboratory consists of toxicological evaluation of selected environmental chemicals. Prerequisites: BIOL 3412 and six hours of organic chemistry or biochemistry. Lab fees charged.
- BIOL 4417 Bacterial Genetics [3-3]  
This course will cover bacterial genetics from both classical and molecular perspectives. Topics will include transcription, translation, mutagenesis, transduction, transformation, conjugation and transposition. The lab will include techniques related to those topics, and will include Northern blotting, DNA sequencing and the polymerase chain reaction. Prerequisites: BIOL 1401 and BIOL 1402, CHEM 1301, CHEM 1101, CHEM 1302, CHEM 1102 and BIOL 3415. BIOL 3401 recommended. Lab fees charged.
- BIOL 4418 Electron Microscopy [3-3]  
This course will provide an opportunity to learn scanning and transmission electron microscopy. Topics include the principles of electron microscopes, cell ultrastructure, specimen preparation, microtomy, immunocytochemistry, operation of electron microscopes, darkroom techniques and graphic arts. Prerequisites: BIOL 1401 and 1402, CHEM 1301 and 1101, and two hours computer literacy.
- BIOL 4419 Aquatic Entomology [3-3]  
This course will cover the identification, taxonomy and ecology of aquatic insects. Emphasis will be on local aquatic environments. Laboratories will consist of field trips and identification of specimens. This course replaces BIOL 4414 and cannot be taken for credit if BIOL 4414 has already been taken. Prerequisites: Nine hours of biology, including BIOL 1402. Lab fees charged.
- BIOL 4420 Biotechnology [3-3]  
as scheduled  
This course will utilize the computational methods, online databases and Internet resources present in the biological sciences and apply them to answer questions in biology ranging from organism development to human disease. The laboratory portion of the class will be computer and Internet-based. Students will explore online database resources to answer questions in a wide variety of areas relating to cellular and molecular biology. Prerequisites: CHEM 2302, and 2102, and BIOL 3413 or BIOL 3401 or BIOL 3412. Lab fees charged.
- BIOL 4422 Neurobiology Methods [2-6]  
as scheduled  
An intensive introduction for studying neural anatomy and physiology, including staining, labeling and extracellular and intracellular recording. Invertebrates are used as subjects. Prerequisites: consent of instructor and BIOL 3310. Lab fees charged.
- BIOL 4424 Microbial Ecology [3-3]  
fall, spring, summer  
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 ecosystems, as well as their metabolic activities, interactions and survival strategies. The effects of microbial activities in areas such as bioremediation and biogeochemistry are also addressed. Prerequisites: BIOL 3401 or General Microbiology. Lab fees charged.
- BIOL 4426 Marine Ecology [3-3]  
fall, spring, summer  
This course is an introduction to marine ecology. It will include discussion of marine ecosystems and processes with a focus on the marine environment of South Texas. Prerequisite: Biology 3409 or Ecology. Lab fees charged.



## Business Law

- BLAW 3337 Business Law I** [3-0]  
fall, spring  
The study of the development and functioning of our legal environment. The development of case law and precedents; the application of procedural and substantive law pertaining to civil and penal matters and the study and analysis of cases and rules of law relating to basic business practices. Governmental regulations of business, property rights and business ethics. Course also includes torts, contracts, commercial transactions and agency. Relevant ethical considerations are included in each topic.
- BLAW 3338 Business Law II** [3-0]  
fall, spring  
A continuation and expansion of the study of rules of law in a business society including sales, commercial paper and credit transactions with emphasis on the Uniform Commercial Code; business organizations; and government regulations, property, wills and trusts, consumer protection and bankruptcy. Prerequisite: BLAW 3337.
- BLAW 3340 International Business Law** [3-0]  
fall, spring, summer  
U.S. laws governing international business. The impact of foreign laws on business within the host country, including U.S. companies in that country. Prerequisite(s): BLAW 3337
- BLAW 4331 Topics in Business Law** [3-0]  
fall  
Each course will address a separate business law topic as determined by the instructor and based on student demand. Possible topics include real estate law, cyber law and entrepreneurial law. This course may be repeated for credit with different topics. Prerequisite: BLAW 3337.

## Chemistry

- CHEM 1101 General Chemistry Lab I** [0-3]  
fall, spring, summer  
An introduction to basic laboratory techniques using experiments to understand chemical concepts of reactions, stoichiometry and titrations. Prerequisite: CHEM 1301; can be taken concurrently with CHEM 1301. \$4 laboratory fee.
- CHEM 1102 General Chemistry Lab II** [0-3]  
fall, spring, summer  
A continuation of CHEM 1101 using more advanced laboratory techniques such as volumetric, gravimetric and spectrophotometric methods of analysis and qualitative inorganic analysis to reinforce topics covered in CHEM 1302. Prerequisite: CHEM 1302; can be taken concurrently with CHEM 1302. \$4 laboratory fee.

**CHEM 1103 Chemistry in Society Lab I** [0-3]  
fall, spring, summer  
This course is an introduction to basic laboratory techniques using experiments involving chemical reactions, stoichiometry, and titrations to understand and reinforce chemical concepts covered in CHEM 1303. Prerequisite: CHEM 1303; can be taken concurrently with CHEM 1303.

**CHEM 1104 Chemistry in Society Lab II** [0-3]  
fall, spring, summer  
This course is a continuation of CHEM 1103, using more advanced laboratory techniques such as spectrophotometric methods of analysis and qualitative analysis to understand and reinforce chemical concepts covered in CHEM 1304. Prerequisite: CHEM 1304; can be taken concurrently with CHEM 1304.

**CHEM 1107 Laboratory Chemistry for Engineers** [0-3]  
fall, spring  
This course will cover basic laboratory operations and include qualitative analysis plus selected experiments related to engineering. Prerequisite: CHEM 1307 concurrent or completed.

**CHEM 1300 Introductory Chemistry** [3-0]  
fall, spring  
Designed for students with little or no chemistry background. It introduces basic vocabulary, fundamentals of chemical mathematics, scientific laws, chemical formulas and equations. This course will not satisfy a laboratory science requirement.

**CHEM 1301 General Chemistry I** [3-0]  
(Texas Common Course Number is CHEM 1411.)  
fall, spring, summer  
Fundamentals of atomic structure, electronic structure and periodic table, nomenclature, the stoichiometry reactions, gas laws, thermochemistry, chemical bonding, and structure and geometry of molecules. Prerequisite: CHEM 1300 or one year of high school chemistry.

**CHEM 1302 General Chemistry II** [3-0]  
(Texas Common Course Number is CHEM 1412.)  
fall, spring, summer  
This course presents the properties of liquids and solids, solutions' acid-base theory, chemical kinetics, equilibrium, chemical thermodynamics, electrochemistry, nuclear chemistry and representative organic compounds. Prerequisite: CHEM 1301.

**CHEM 1303 Chemistry in Society I** [3-0]  
fall, spring, summer  
This course is an introduction to atomic structure, electronic structure and the periodic table, nomenclature, nuclear chemistry, chemical bonding, stoichiometry, chemical reactions, and representative organic compounds, all applied within the context of society and the environment for non-science majors. Prerequisites: None

CHEM 1304 Chemistry in Society II [3-0]  
fall, spring, summer  
This course is an introduction to the properties of solids, liquids, gases, and solutions, chemical thermodynamics, biochemistry, and food chemistry, along with the application of chemistry to health and nutrition, pharmaceuticals, toxicology, and household chemicals for non-science majors. Prerequisite: CHEM 1303

CHEM 1307 Chemistry for Engineers [3-0]  
fall, spring  
This course will cover stoichiometry, structure, bonding, thermodynamics, and kinetics plus a brief survey of organic chemistry, biochemistry, and analytical chemistry. Prerequisite: High School Chemistry.

CHEM 2101 Analytical Chemistry Lab [0-3]  
fall  
A laboratory hands-on experience in quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric and electroanalytical methods. Prerequisite/co-requisite: CHEM 2301.

CHEM 2102 Organic Chemistry Lab I [0-3]  
fall, spring, summer  
An introduction to organic synthesis. Fundamental techniques such as crystallization, distillation, extraction and chromatography are discussed and applied to the preparation of organic compounds. Prerequisite: CHEM 2302; can be taken concurrently with CHEM 2302. \$4 laboratory fee.

CHEM 2103 Organic Chemistry Lab II [0-3]  
fall, spring, summer  
Syntheses are more advanced, with greater emphasis on aromatic compounds. Grignard and diazonium salt preparations are included. Compounds are characterized by spectroscopic techniques. Prerequisite: CHEM 2102. \$4 laboratory fee.

CHEM 2204 Chemistry Research [0-6]  
fall, spring, summer  
This course is designed to introduce the student to Scientific Research by joining the laboratory of a Research Mentor. The Student works directly with their mentor on a directed individual research project to learn scientific methodology and certain basic techniques. Prerequisite: None.

CHEM 2301 Analytical Chemistry [3-0]  
fall  
An introduction to principles of quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric and electroanalytical methods. Prerequisite: CHEM 1302.

CHEM 2302 Organic Chemistry I [3-0]  
fall, spring, summer  
An introduction to the fundamentals of organic chemistry. Study of covalent bonding, molecular structure, acid-base theory, conformational analysis and stereochemistry. Relations between structure and reactivity: functional groups

and their interconversions. Mechanistic studies with emphasis on reactive intermediates. Prerequisite: CHEM 1302.

CHEM 2303 Organic Chemistry II [3-0]  
fall, spring, summer  
This course is a continuation of CHEM 2302 and includes an introduction to aromaticity and aromatic compounds. The study of functional groups and the mechanisms of their reactions are continued. Physical methods of structure determination: UV-Vis, IR and NMR. Prerequisite: CHEM 2302.

CHEM 3103 Biochemistry Lab [0-3]  
fall, spring  
Introduction to the application of various techniques such as column chromatography, electrophoresis to study macromolecules such as protein estimation, enzyme kinetics and chemistry of carbohydrate, lipids and nucleic acids. Prerequisite: CHEM 3303; can be taken concurrently with CHEM 3303. \$4 laboratory fee.

CHEM 3104 Physical Chemistry Lab I [0-3]  
fall  
Experiments are designed to demonstrate and reinforce the concepts developed in physical chemistry lectures. Emphasis is given to error analysis and statistical treatment of data. Prerequisite: CHEM 3304; can be taken concurrently with CHEM 3304. \$4 laboratory fee.

CHEM 3105 Physical Chemistry Lab II [0-3]  
spring  
This course is a continuation of CHEM 3104. Experiments are performed to reinforce concepts in quantum mechanics, spectroscopy and chemical kinetics. Prerequisite: CHEM 3305; can be taken concurrently with CHEM 3305. \$4 laboratory fee.

CHEM 3202 Inorganic Chemistry Lab [1-3]  
spring  
Microscale synthesis and characterization of inorganic, organometallic, coordination and bioinorganic compounds employing advanced laboratory techniques. Prerequisite: CHEM 3301; can be taken concurrently with CHEM 3301. \$4 laboratory fee.

CHEM 3206 Advanced Chemistry Research I [0-6]  
fall, spring, summer  
This course is designed to provide students already exposed to Scientific Research with more research experience. The student is expected to join the laboratory of a Research Mentor and will work directly with their mentor on a directed individual research project to answer specific research questions and learn more advanced techniques. Please note that this course cannot be counted towards a Chemistry Minor. Prerequisite: Students should have taken or be concurrently enrolled in a junior level course and a lab in a specific area.

CHEM 3301 Inorganic Chemistry [3-0]  
spring

A descriptive study of modern topics in inorganic chemistry that includes periodicity, acid-base theories, structure, bonding and reactivity of inorganic compounds and chemistry of nontransition elements and their compounds. (Writing intensive.) Prerequisite: Twelve hours of chemistry, including CHEM 2302.

CHEM 3303 Biochemistry [3-0]  
fall, spring

A discussion of the structural and functional viewpoint of biological macromolecules including proteins, carbohydrates and nucleic acids and the techniques used in their study. The course material will also include study of energy yielding metabolic pathways such as glycolysis, the Krebs cycle, fatty acid oxidation and oxidative phosphorylation. Prerequisite: CHEM 2302.

CHEM 3304 Physical Chemistry I [3-0]  
fall

An introduction to the properties of gases, the kinetic molecular theory and the study of thermodynamics, including an in-depth coverage of the first, second and third laws of thermodynamics and equilibrium. Statistical mechanics is used in the development of energy related concepts. Prerequisites: MATH 1401, MATH 1402 and 12 hours of chemistry.

CHEM 3305 Physical Chemistry II [3-0]  
spring

The second half of physical chemistry investigates concepts in quantum mechanics, group theory and symmetry and spectroscopy. Studies of chemical kinetics and electrochemistry are also included. Prerequisite: CHEM 3304.

CHEM 3306 Polymer Science and Engineering [3-0]  
fall

A general introduction to the theories and industrial practices for polymeric materials. The course includes synthesis, physical characterization and structure-property relationships of polymers. Emphasis is given to industrially important polymers as materials. Prerequisite: CHEM 1302.

CHEM 3401 Environmental Chemistry [3-3]  
fall, summer I

Environmental Chemistry is an introduction to the study of the natural and anthropogenic aspects of the chemistry of the earth including the atmosphere, hydrosphere, and geosphere. This course will provide students with an understanding of field and laboratory methods of environmental chemistry in addition to a comprehensive investigation of current topics in the discipline. Students should have a strong background in general and or organic chemistry. Field investigation is an important part of this course. Prerequisite: CHEM 2302 and CHEM 2102

CHEM 4101 Chemistry Seminar [1-0]  
fall, spring

An introduction to the use of current chemical literature and periodicals. Each student is expected to conduct an in-depth study of a chemical topic that will serve as a basis for a

presentation in a seminar. Required of all chemistry majors. Prerequisite: Chemistry major with senior standing or consent of instructor.

CHEM 4104 Instrumental Analysis Lab [0-3]  
spring

A laboratory hands-on experience in instrumental analysis. Includes application of modern instrumentation and scientific software in solving analytical problems. Prerequisite/Co-requisite: CHEM 4304.

CHEM 4105 Chemistry Capstone [1-0]  
fall, spring

This course will include a review and integration of chemical concepts, assessment, job search tools, exposure to graduate school opportunities, scientific ethics and chemical education as part of the final preparation of our ACS Chemistry Majors. Prerequisite: Student must have a senior standing.

CHEM 4201 Chemistry Problems I [0-2]  
fall, spring

A course adapted to the study of special topics in chemistry through research. Students are allowed to select the research problem through individual conferences with faculty members, who develop one- or two-semester research projects for the course. Students must have the approval of the instructor prior to registration. Prerequisite: Chemistry major with junior standing or consent of instructor. \$4 laboratory fee.

CHEM 4202 Chemistry Problems II [0-2]  
fall, spring

A continuation of CHEM 4201. Prerequisite: CHEM 4201. \$4 laboratory fee.

CHEM 4203 Advanced Biochemistry Lab [0-6]  
fall, spring

An enquiry-based lab that exposes students to undergraduate research, experimental design, the research literature, writing and reporting results, isolation and characterization of biological molecules of selected importance from specific model systems. Students will be exposed to a variety of techniques commonly used in answering Biochemistry-related questions such as spectroscopy, electrophoresis, bioassay and biotechnology tools. Prerequisite: CHEM 3303

CHEM 4206 Advanced Chemistry Research II [0-6]  
fall, spring, summer

This course is designed to provide students already exposed to Scientific Research with more research experience. The student is expected to join the laboratory of a Research Mentor and will work directly with their mentor on a directed individual research project to answer specific research questions and learn more advanced techniques. Please note that this course cannot be counted towards a Chemistry Minor. Prerequisite: Students should have take or be concurrently enrolled in a senior level course and a lab in a specific area or CHEM 3206.

CHEM 4207 Biochemistry Writing and Seminar [2-0]

fall, spring

A course designed to introduce students to the use of current Biochemical literature and periodicals as well as biochemical writing. Each student is expected to conduct an in-depth study of a Biochemical topic that will serve as the basis for a presentation in a seminar and a term paper. Prerequisite: Chemistry or Biochemistry or Science major with junior standing.

CHEM 4278 Special Topics in Chemistry I [2-0]

fall, spring

A course designed to cover specialized areas in the science of Chemistry. It can be repeated when topic changes. However, a maximum of four credit hours is applicable to the degree requirement. Prerequisite: Chemistry major with junior standing.

CHEM 4301 Advanced Inorganic Chemistry [3-0]

fall

Study of nomenclature, structure and reactivity of coordination compounds, Ligand field theory and chemistry of transition elements.

CHEM 4302 Advanced Biochemistry [3-0]

fall, spring

The course is a continuation of CHEM 3303. This course reviews the mechanisms of biosynthesis of macromolecules, particularly amino acids, proteins, fatty acids, lipids, polysaccharides, purines, pyrimidines and nucleic acids. Emphasis will be given to how these processes are controlled and integrated with the metabolism of the cell and molecular basis of disorders related to intermediary metabolism. Prerequisites: CHEM 3103 and CHEM 3303.

CHEM 4303 Advanced Organic Chemistry [3-0]

fall

The course describes the advanced organic synthetic methods and mechanisms and illustrations of their applications in the synthesis of biologically active molecules such as chiral medicinal drugs and insect pheromones. Prerequisites: CHEM 2302 and CHEM 2303. No lab required.

CHEM 4304 Instrumental Analysis [3-0]

spring

A study of principles of instrumental analysis measurements and techniques. Components and operation of basic and modern instrumentation will be covered. Prerequisites: CHEM 2301 and CHEM 2101.

CHEM 4306 Special Topics in Biochemistry [3-0]

fall, spring

A course designed to cover specialized areas in Biochemistry. It can be repeated when topics change. However, a maximum of six credit hours is applicable to the degree requirement. Prerequisite: Chemistry or Biochemistry or Science major with junior standing.

CHEM 4378 Special Topics in Chemistry II [3-0]

fall, spring

A course designed to cover specialized areas in the science of

Chemistry. It can be repeated when topic changes. However, a maximum of six credit hours is applicable to the degree requirement. Prerequisite: Chemistry major with junior standing.

CHEM 4401 Chemistry Education [3-3]

fall

This course is an introduction to the intersection between chemistry content, learning chemistry content, and teaching chemistry content. Topics covered in the course include inquiry in chemistry, methods of teaching and learning chemistry, assessment of learning in chemistry, the history and nature of chemistry, chemistry in society, and the use of models in chemistry.

Prerequisites: CHEM 1101, CHEM 1102, CHEM 1302

## Computer Information Systems

CIS 1101 Introduction to Office Software [1-0]

fall, spring, summer

A hands-on approach to different software packages for word processing, spread sheets, database, e-mail and Internet.

CIS 1201 Introduction to Information Systems and Technology [2-0]

fall, spring, summer

This course includes a study of computer-based technology in communicating, solving problems, acquiring information and conducting business. Students will be presented the history and development of computer information systems, the social implications and ramifications of these developments along with the limits, possibilities, problems and careers associated with the use of technology. Students will be introduced to the skills/tools necessary to evaluate and learn new technologies as they become available. Students with no or limited computer experience are advised to concurrently enroll in CIS 1101 or enroll in CIS 1301 instead of CIS 1201.

CIS 1301 Computer Information Systems [3-0]

(Texas Common Course Number is COSC 1305.)

fall, spring, summer

This course serves as an introduction to the primary components of a business computer system and to the primary application software packages used to increase productivity of business professionals. These topics will be reinforced with microcomputer laboratory exercises.

CIS 2301 Business Information Technologies [3-0]

fall, spring, summer

This course introduces students to the basic concepts of computing and information technology knowledge in the context of the contemporary business environment. Topics include computer architecture, traditional packaged software, open source software, operating systems and emerging information technologies and their applications.

CIS 2308 Introduction to Business Programming [3-0]  
fall, spring  
Students will be introduced to developing business applications using modern programming languages. Topics include fundamentals logic development and implementation, user interface design, data controls and systems integration. Prerequisites: CIS 1301 or or equivalent.

CIS 3198 Business Analysis and Communication [1-0]  
fall, spring  
This course introduces students to the use of information technologies for the purpose of business analysis and communication. Students will use various software tools to extract and organize business data into useful knowledge, and share the information with others for managerial purposes in contemporary enterprises.

CIS 3300 Internship in CIS [0-0-3]  
fall, spring, summer  
This internship is designed to give students an opportunity to gain real world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. Prerequisites: Upper-division standing and approval by both department chair and employer providing internship experience.

CIS 3308 Advanced Business Programming [3-0]  
fall, spring  
This course is a continuation of CIS 2308 using advanced features of visual basic for business applications. Students will develop applications such as payroll, accounts receivable, inventory, point of sale and online purchases. Prerequisite: Grade of C or better in CIS 2308.

CIS 3312 Web Systems Design [3-0]  
fall, spring  
A study of the concepts and principles of designing Web-based systems and delivery of business content on the Web using HTML, JavaScript, and other tools. Hands-on projects and exercises will be used to emphasize various tools and techniques used in Web systems development. Prerequisite: Grade of C or better in CIS 2308.

CIS 3320 Organizational Information Assurance [3-0]  
fall, spring  
This course covers fundamental concepts of information assurance in enterprises. Topics include managing information risks and threat analysis, information security evaluation, planning and deploying information assurance policies, management, legal and ethical issues.

CIS 3335 Database Management [3-0]  
fall, spring

This course is an introduction to the foundations of database technology. Basic knowledge in data structures, normalization of data and data modeling will be included. Relational, hierarchical and network models will be covered. The student will be introduced to the rudiments of the construction of database schema via laboratory experiences stressing application development through advanced programming techniques and a database language. Prerequisites: Grade of C or better in CIS 2308.

CIS 3336 Systems Analysis [3-0]  
fall  
This course examines the analysis of business information systems and their redesign vis-à-vis automated applications. Student teams will be required to initiate, plan and analyze a real-life project within an organization. Team projects will result in a system proposal. Prerequisites: Grade of C or better in CIS 2308.

CIS 3338 Computer Networks and the Internet[3-0]  
fall, spring  
An introduction to the characteristics, feasibility and design of networks and distributed data processing. Focus is on the business and elementary technical aspects of distributed processing involving digital communication. The business aspects will include implementation strategies, security, control and selection of distributed data processing. Elementary technical aspects will include data communication technology, hardware configuration and application software. Prerequisite: Six hours of CIS or CSCI above computer literacy with grade of C or better or consent of department chair.

CIS 3380 Global Information Systems [3-0]  
fall, spring, summer  
The purpose of this course is to investigate the role of information technologies in multinational settings. This course will examine the international business environment and how information systems and technology can be effectively utilized in multinational environments. Prerequisites: MANA 3361, computer literate and junior standing.

CIS 3390 Management Information Systems [3-0]  
fall, spring, summer  
This course is a study of the use of current technology in strategic decision-making and operations of the modern organizations, both public and private. The course examines how organizations plan, develop, implement and maintain information systems to take advantage of recent technological advances in information technology. Prerequisites: CIS 1301 or consent of department chair.

CIS 3395 ERP Implementation [3-0]  
fall, spring  
In this course, students apply their understanding of business processes to the configuration of enterprise resource planning (ERP) systems. Students gain hands-on experience implementing ERP systems as they develop solutions for the

business problems. Topics include business process analysis and integration, configuration of business rules and policies, and testing of ERP solutions.

CIS 4308 IT Project Management [3-0]  
fall, spring

This course presents the specific concepts, system and technologies for managing projects effectively. IT leads the students through a complete project life cycle, from requirements analysis and project definition to start-up, reviews and phase-out. The role of the project manager as team leader is examined together with important techniques for controlling project costs, schedules and performance. Lectures, case studies, a research project and group discussions are combined to develop the skills needed by project managers in today's environment. Prerequisites: CIS 3390 or consent of department chair.

CIS 4312 Application Development [3-0]  
for E-commerce

spring  
This course introduces the development of electronic commerce applications using object-oriented programming. Students will develop business applications and applets for web-based systems using Java and/or more current object-oriented programming languages. Prerequisite: CIS 3312 with a grade of C or better.

CIS 4330 Business Intelligence [3-0]  
fall, spring

Overview of important concepts of business intelligence and the use of related technologies to enable organizations to function effectively in dynamic business environments. Topics include intelligence programs, processes and tools to track business, competitors, markets and trends by acquiring, creating, managing, packaging and disseminating intelligence knowledge.

CIS 4336 Systems Design [3-0]  
and Development

spring  
This course is a continuation of CIS 3336. Students will be required to design, develop and implement a real-life project from a system proposal. Students will be organized into teams and will be required to apply the concepts learned in earlier courses. Prerequisites: Grade of C or better in CIS 3335 and CIS 3336.

CIS 4391 Information Security [3-0]  
spring

The objective of this course is to provide students with a balanced understanding of the technical and organizational issues related to Information Security. Students will receive theoretical and practical instructions in both technical and managerial aspects of securing information in organizations. Representative topics covered in the course include key topics such as Internet and network security, Encryption, Cryptography, Symmetric and Public Key algorithms, Digital

signatures, Authentication, Key database security, secure communications and industry best practices for information assurance. The course will be helpful to the students who aim to pursue Certified Information Systems Security Professional certification and/or careers in Information Security.

CIS 4395 ERP Customization [3-0]  
fall, spring

This course covers the development and administration of enterprise resource planning (ERP) system applications. Students will study ERP systems infrastructure support requirements, and will develop customized ERP solutions, including system interfaces, web-based systems and executive information systems.

## Clinical Laboratory Sciences

CLSC 2429 Clinical Microbiology in [3-3]  
Health Care

as scheduled  
This course will focus on the immunology, diagnosis, treatment and prevention of infectious diseases. The major categories of microbial pathogens such as viruses, bacteria, fungi and parasites will be discussed in relationship to human disease processes. Utilization and interpretation of laboratory findings in the health care setting will be emphasized. Students will have the opportunity to acquire skills in the use of universal precautions and infection control techniques. Recommended for pre-professional students interested in health professions. Prerequisite: Eight hours of biology.

CLSC 3100 Introduction to [1-0]  
Clinical Laboratory Science

fall  
Introduction to the clinical laboratory science profession including professional ethics, certification and licensure issues, laboratory safety, regulatory requirements and basic concepts in quality control. Open to all interested students. Prerequisites: Eight hours of biology and eight hours of chemistry.

CLSC 3227 Clinical Laboratory Methods [1-3]  
fall

Lecture-laboratory course that introduces the student to the medical laboratory. Emphasizes appropriate laboratory studies for specific diseases, normal laboratory values and procedures for obtaining samples. Students are given the opportunity to perform waived and PPM lab studies. Prerequisite: PHAS (grade of C or better).

CLSC 3310 Hematology I [2-3]  
fall

Formation, function and identifying characteristics of the cellular elements of blood. Lecture and laboratory emphasize

the enumeration, morphology and staining characteristics of normal and abnormal blood cells in healthy and diseased states. Coagulation physiology and methods of detecting defects will also be introduced. Prerequisite: Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 3420 Clinical Chemistry I [3-3]  
fall

Studies in clinical chemistry and urinalysis with concentration on the physiology of normal and abnormal metabolism as they relate to those techniques commonly performed in the general chemistry laboratory. Basic clinical chemistry and urinalysis instrumentation and methodology along with a discussion of diagnostic applications and clinical correlation of laboratory results will be emphasized. Prerequisite: Admission into the Clinical Laboratory Science Program or approval of the instructor.

CLSC 3513 Clinical Immunology and Immunohematology [4-3]  
fall

Basic aspects of the immune response and its relationship to the diagnosis and treatment of disease. Lecture and laboratory stress the basic concepts of the human immune system as well as clinical applications in the detection and diagnosis of disease processes by common serological tests including immunohematology applications. Prerequisite: Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 3530 Clinical Microbiology I [4-5]  
fall

Lecture and laboratory studies of human pathogens including common bacteria and parasites. Emphasis on staining, cultural and differential biochemical characteristics, as well as methods of isolation. Prerequisite: Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 4100 Seminar [1-0]  
fall

The student will be introduced to the broader role of the clinical laboratory scientist through seminars, case studies and activities designed to prepare the student for professional practice. Included in this course are review and practice examinations as well as a comprehensive exam encompassing the major areas of the clinical laboratory science field. Prerequisites: Admission to the Clinical Laboratory Sciences Program and completion of CLSC 4340 and 4341.

CLSC 4122 Method Development and Research [1-0]  
fall

Students will be introduced to the principles, regulatory requirements and statistical procedures used in developing and implementing new methods in the clinical laboratory. The principles of research will also be introduced to enable students to review and evaluate the medical literature related

to new laboratory techniques.

CLSC 4144 Clinical Practicum V [0-0-6]  
fall

Clinical application of theory and techniques in affiliated institutions. Prerequisites: Admission into Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4303 Medical Laboratory Leadership [3-0]  
fall

An introduction to the leadership roles and responsibilities of the clinical laboratory scientist in management, supervision and education as well as regulatory and legal aspects of laboratory medicine. Prerequisite: Admission into the Clinical Laboratory Sciences Program.

CLSC 4314 Advanced Immunohematology [2-5]  
spring

Lecture and laboratory stress the detection, identification and characterization of rarer and atypical antigens and antibodies, compatibility testing, blood component therapy and problem-solving techniques. Prerequisites: Admission into the Clinical Laboratory Sciences Program and CLSC 3513.

CLSC 4315 Advanced Immunology and Molecular Diagnostics [2-3]  
fall

This course introduces the student to advanced concepts in immunology as well as the principles of molecular diagnostics as applied to the practice of laboratory medicine. Students will be introduced to the theory and techniques used in paternity testing, autoimmune disorders, tissue transplantation, the diagnosis of infectious disease states and clinical correlation with abnormal and normal conditions.

CLSC 4340 Clinical Practicum I [0-0-13]  
summer I

Clinical application of theory and techniques in affiliated institutions. Prerequisites: Admission into the Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4341 Clinical Practicum II [0-0-13]  
summer II

Clinical application of theory and techniques in affiliated institutions. Prerequisites: Admission into the Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4342 Clinical Practicum III [0-0-13]  
fall

Clinical application of theory and techniques in affiliated institutions. Prerequisites: Admission into the Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4343 Clinical Practicum IV [0-0-13]

fall

Clinical application of theory and techniques in affiliated institutions. Prerequisites: Admission into the Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4411 Clinical Hematology II [3-3]  
spring

Continuation of Hematology I with an emphasis on abnormal morphology and related disease states. Coagulation abnormalities and associated clinical correlation will also be covered as well as the more specialized techniques in hematology and coagulation. Prerequisites: CLSC 3310 or permission of the instructor.

CLSC 4521 Clinical Chemistry II [4-5]  
spring

Continuation of Clinical Chemistry I with an emphasis on more advanced concepts and procedures including acid base balance, endocrine testing, toxicology, therapeutic drug monitoring as well as the associated normal and abnormal physiology and the appropriate clinical correlation of results. Alternate specimen types such as body fluids and fecal samples will also be addressed. Prerequisite: CLSC 3420 or permission of the instructor.

CLSC 4631 Clinical Microbiology II [5-5]  
spring

Continuation of Clinical Microbiology I with an emphasis on fastidious bacteria, fungi, viruses and rickettsia. Disease processes, therapy and prevention as they relate to microbiology will also be emphasized. Prerequisites: Admission into the Clinical Laboratory Sciences Program and CLSC 3530.

## Computer Engineering

CMPE 1170 Engineering Computer Science I Laboratory [0-3]  
fall, spring, summer

The course includes hands-on instruction and laboratory exercises in developing programs written in a high-level object-oriented programming language applying the principles taught in the CMPE 1370 lecture course. Co-requisite: CMPE 1370. Equivalent Course: CSCI 1170. A student may receive credit in only one course.

CMPE 1370 Engineering Computer Science I [3-0]  
fall, spring, summer

An introduction to computer science and computer engineering. The fundamentals of a high-level programming language will be introduced. Methods of problem solving, techniques of algorithmic development and concepts of procedural and object-oriented programming will be emphasized. Societal and social issues related to computer engineering will be introduced. Prerequisites: CSCI 1300 or equivalent experience and grade of C or better in MATH 1340

or placement in a higher-level math course. Co-requisite: CMPE 1170. Cannot receive credit for both CSCI 1380 and CMPE 1370. Will replace a grade received in CSCI 1380. Equivalent Course: CSCI 1370-. A student may receive credit in only one course.

CMPE 2120 Electrical Circuits Laboratory [0-3]  
fall, spring, summer

This course covers fundamental circuit measurement techniques and reinforces concepts from CMPE 2320, Electrical Circuits I. Topics include basic instrumentation; measurement of voltage, current, resistance, power, frequency and phase; analysis of experimental data; and reporting of technical results. Prerequisite: Credit or registration for CMPE 2320. Equivalent Course: ELEE 2120. A student may not receive credit for both CMPE 2120 and ELEE 2120.

CMPE 2130 Digital Systems Engineering I Laboratory [0-3]  
fall, spring, summer

Basics of digital logic and hardware; combinational circuits, flip-flops, registers, sequential circuits and state machines. Co-requisite: Credit or registration for CMPE 2330. Equivalent Course: ELEE 2130. A student may not receive credit for both CMPE 2130 and ELEE 2130.

CMPE 2320 Electrical Circuits I [3-0]  
fall, spring,

This course covers fundamentals of electrical circuits, including basic definitions, Kirchoff's laws, nodal and loop analysis, superposition, Thevenin and Norton equivalents, time-varying circuits, simple transient response, sinusoidal steady state analysis using phasors and power in sinusoidal steady state circuits. Equivalent Course: ELEE 2320. A student may not receive credit for both CMPE 2320 and ELEE 2320. Prerequisites: Credit for MATH 1470, credit or registration for PHYS 2402.

CMPE 2322 Signals and Systems [3-0]  
fall, spring, summer

Fourier and Laplace transforms with applications to circuit analysis; transfer functions and impulse response; discrete time systems including sampling and z transforms. Prerequisites: ELEE 2320 with a grade of C or better, credit or enrollment in MATH 3349.

CMPE 2330 Digital Systems Engineering I [3-0]  
fall, spring, summer

Boolean algebra; analysis and synthesis of combinational and sequential switching network; applications to computer design. Co-requisite: Credit or registration in MATH 1460 is recommended but not required. Equivalent Course: ELEE 2330. A student may not receive credit for both CMPE 2330 and ELEE 2330.

CMPE 2333 Computer Organization and Assembly Language [3-0]  
fall, spring, summer

An introduction to computer organization, use of assembly



language programming, basic instruction sets, arithmetic and logical operations, addressing modes and macro definition. Several computer programming projects are included. Prerequisite: CMPE 1370 or CSCI 1381 or 1387. Equivalent Course: CSCI 2333. A student may receive credit in only one course.

CMPE 2380 Computer Science II [3-0]  
fall, spring, summer

A second programming course includes problem solving by structured design; provides an introduction to elementary data structures, including linked lists, stacks queues, trees and graphs and advanced programming techniques, including recursion, sorting and searching. Prerequisite: CSCI 1381 or CSCI 1388 or CSCI 1370 or CMPE 1370 or consent of instructor. Equivalent Course: CSCI 2380. A student may receive credit in only one course.

CMPE 3226 Instrumentation Lab I [0-6]  
fall, spring, summer

Intermediate-level measurements, instrumentation and data acquisition; limitations of ideal models; design projects in areas of digital logic and electronics; technical communication. Co-requisites: Credit or registration for CMPE 3403 and CMPE 2322.

CMPE 3331 Microcontroller and Embedded Systems Lab [1-6]  
fall, spring, summer

Design projects of progressively increasing complexity including mixed signal design, computer interfacing, embedded microcontrollers and distributed systems. Prerequisites: CMPE 3226, CMPE 3403 and CMPE 3437 with a grade of C or better.

CMPE 3333 Algorithms and Data Structures [3-0]  
fall, spring, summer

This course is a continuation of data structures topics covered in CMPE 2380. Content includes theoretical topics in algorithmic efficiency and complexity, along with abstract data types, including graphs, networks, trees and priority queues. Search topics, including hashing, trees, external search trees (B-trees) and sorting algorithms including external sorting are introduced and compared. Computational complexity topics include the Class P and NP, NP-completeness and reducibility, NP-completeness proofs and NP-complete problems. Prerequisites: CMPE 2380 or CSCI 2380, and concurrent enrollment in MATH 2346. Equivalent Course: CSCI 3333. A student may receive credit in only one course.

CMPE 3334 Systems Programming [3-0]  
fall, spring, summer

This course covers the design and implementation of system software. It investigates the relationship between software design and machine architecture. Topics may include assemblers, macroprocessors, compilers, loaders, debugging environments, program development and archival tools,

command language interpreters (shells), file systems, I/O support, processes, threads and inter-process communication. Equivalent Course: CSCI 3334. A student may receive credit in only one course. Prerequisites: CSCI 2333 or CMPE 2333 or ELEE 3435 or CMPE 3437.

CMPE 3340 Software Engineering [3-0]  
fall, spring, summer

A formal approach to the state-of-the-art techniques in software design and development. Emphasis will be on project planning, requirements, specification and system design and includes object design, testing and implementation. Provides the student with the opportunity to work on large projects in a group situation. Prerequisite: CMPE 2380 or CSCI 2380 and three advanced hours in CSCI courses. Equivalent Course: CSCI 3340. A student may receive credit in only one course.

CMPE 3341 Software Engineering II [3-0]  
fall, spring, summer

The course will cover the analysis of requirements and software architecture and with a major emphasis on object design, implementation, testing and validation, maintenance and software re-engineering. It will provide the student with the opportunity to work on large projects in a group situation. Prerequisite: CMPE 3340 or CSCI 3340. Equivalent Course: CSCI 3341. A student may receive credit in only one course.

CMPE 3342 Probability and Statistics for Computer Engineers [3-0]  
fall, spring, summer

Probability, random variables, distribution and density functions, statistical estimators, correlation, regression techniques, system response to random inputs. Prerequisite: ELEE 2321 or CMPE 2322. Equivalent Course: ELEE 3340. A student may not receive credit for both ELEE 3340 and CMPE 3342.

CMPE 3403 Electronics for Computer Engineering [3-1]  
fall, spring, summer

An intensive one-semester introduction to electronics, emphasizing topics specific to computer engineering. Basic semiconductor devices, device characteristics and models, amplifier circuits, device level design of switching and logic circuits, operational amplifiers and power supplies. Prerequisites: CMPE 2320 or ELEE 2320 and CMPE 2330 or ELEE 2330 with a grade of C or better.

CMPE 3437 Microprocessor Systems [3-3]  
fall, spring, summer

Basic microprocessor programming and principles of assembly language programming; microprocessor organization and interfacing; applications, including data acquisition, control and communication. Prerequisites: CMPE 2330 and CMPE 1370. Equivalent Course: ELEE 3435. A student may not receive credit for both ELEE 3435 and CMPE 3437.

- CMPE 4301 Digital Image Processing [3-0]  
fall, spring, summer  
The course presents fundamental concepts and applications of digital image processing. Topics include basic color, image perception and transformation, image enhancement and compression, image analysis and computer vision. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent Course: CSCI 4301. Students may receive credit for only one.
- CMPE 4303 Digital Systems Engineering II [3-0]  
fall, spring, summer  
Hardware implementation of arithmetic and other algorithmic processes; organization, design and simulation of digital systems; asynchronous sequential switching networks. Prerequisite: CMPE 2330. Equivalent Course: ELEE 4303. A student may not receive credit for both CMPE 4303 and ELEE 4303.
- CMPE 4327 Compiler Construction [3-0]  
fall, spring, summer  
Syntax analysis and semantic processing for a block-structured language. Compilation vs. interpretation; lexical analysis based on finite automata; syntax-directed translation; symbol tables; run-time storage allocation; error detection and recovery; code generation and optimization. Students are required to write a compiler. Prerequisites: CSCI 3334 or CMPE 3334 or consent of instructor. Equivalent Course: CSCI 4327. A student may receive credit in only one course.
- CMPE 4333 Database Design and Implementation [3-0]  
fall, spring, summer  
Study of logical (hierarchical, network, relational) and physical (sequential, indexed, relative) organization of databases. Database management systems and their features, querying databases, distributed databases and data compression. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent Course: CSCI 4333. A student may receive credit in only one course.
- CMPE 4334 Operating Systems [3-0]  
fall, spring, summer  
This course provides a study of the basic concepts of operating systems; process management, memory management, file systems, resource allocation and protection. Prerequisites: CMPE 3333 or CSCI 3333 and CMPE 3334 or CSCI 3334. Equivalent Course: CSCI 4334. A student may receive credit in only one course.
- CMPE 4335 Computer Architecture [3-0]  
fall, spring, summer  
A study of the operational units and their interconnections of a modern computer as well as the theory behind the design of the instruction set, control unit, registers, memory hierarchy and addressing modes, bus structures, input/output and storage units. Similarities between CISC and RISC architectures and related issues such as instruction level parallelism and superscalar processors are discussed. Prerequisites: CSCI 2333 or CMPE 2333 or CMPE 3437 and CSCI 3333 or CMPE 3333. Students may receive credit for only one of CSCI 4335, CMPE 4335, CMPE 4380 or ELEE 4380. Equivalent Course: CSCI 4335.
- CMPE 4336 Parallel and Distributed Computing [3-0]  
fall, spring, summer  
Presents principles and practices of parallel and distributed computing. Topics include parallel and distributed computation models and architectures; design, analysis and implementation of parallel algorithms; and methods of parallel and distributed programming. Prerequisite: CSCI 4335 or CMPE 4335 or CMPE 4380. Equivalent Course: CSCI 4336. A student may receive credit in only one course.
- CMPE 4341 Topics in Computer Engineering [3-0]  
fall, spring, summer  
Topics selected from current issues in computer engineering. May be repeated for credit when topics vary. Prerequisite: Consent of instructor.
- CMPE 4343 Software Verification, Validation and Quality Assurance [3-0]  
fall, spring, summer  
Course topics include: Methods for evaluating software for correctness and reliability including code inspections and their role in software verification; program proofs and testing methodologies; formal and informal proofs of correctness; unit and system testing techniques, testing tools and limitations of testing; statistical testing; and reliability models. Prerequisites: CMPE 3340. Equivalent Course: CSCI 4343. A student may receive credit in only one course.
- CMPE 4345 Computer Networks [3-0]  
fall, spring, summer  
An introduction to data communication topics, including data transmission, encoding, data link control, switching, network topologies, protocols, Internet working and data security. Examples of existing networks and network architectures are studied. Prerequisite: CMPE 3333. Equivalent Course: CSCI 4345. A student may receive credit in only one course.
- CMPE 4350 Artificial Intelligence [3-0]  
fall, spring, summer  
Study of intelligent machines and machine learning. Includes problem solving and heuristic search, natural language understanding, game playing, database and expert systems. Artificial Intelligence projects will be implemented using an AI language such as Lisp, Prolog, C++ or Java. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent Course: CSCI 4350. A student may receive credit in only one course.
- CMPE 4363 Computer and Network Security [3-0]  
fall, spring, summer  
This course examines the internetworking architecture and routing, design and implementation issues related to secure and reliable networks, cryptography, firewalls, digital signatures, worms, viruses, logic bombs and spyware. Prerequisite: CMPE 4345 or CSCI 4345 or CMPE 4390.

Equivalent Course: CSCI 4363. A student may receive credit in only one course.

CMPE 4365 Digital Signal Processing [3-0]  
fall, spring, summer

Sampling theory, discrete processing of analog signals, discrete Fourier transforms, signal analysis, z-transforms, digital filter design, real-time digital signal processing, applications. Prerequisites: ELEE 2321 or CMPE 2322 and credit for or enrollment in MATH 3349. Equivalent Course: ELEE 4365. A student may not receive credit for both ELEE 4365 and CMPE 4365.

CMPE 4366 Introduction to Image Processing [3-0]  
fall, spring, summer

This course provides an introduction to image processing topics and design of image processing software. The course covers methods for computer analysis of images, and processing of images including image formation, spatial resolution, preprocessing techniques, image filtering, image enhancement and image segmentation methods. Prerequisites: CSCI 1370 or equivalent. Equivalent Course: ELEE 4366. A student may not receive credit for both CMPE 4366 and ELEE 4366.

CMPE 4367 Fiber Optics Communication [3-0]  
fall, spring, summer

Introduction to optics, photonics and optoelectronics, fiber optics devices and communication systems. Topics include ray optics, electromagnetic optics, resonator optics, dielectric waveguides and fibers, semiconductor and laser light sources and detectors, modulators, amplifiers, connectors and optical fiber communication systems. Prerequisite: CMPE 2321 or CMPE 2322. This course is equivalent to course ELEE 4367. A student will not receive credit for both.

CMPE 4371 Senior Design I [1-6]  
Software Track

fall, spring, summer  
Apply the knowledge and skills gained in previous courses to synthesize a solution to a significant and realistic problem, integrating software and hardware design. Participate in team project activities including problem formulation and proposal, project analysis, software and hardware requirements specification, project planning and software and hardware design. Software design documentation and oral presentation are an integral part of the course. Prerequisites: CSCI 3340 or CMPE 3340 and senior standing in computer engineering. Can receive credit for only one of CSCI 4390, CMPE 4371 and CMPE 4373.

CMPE 4372 Senior Design II [1-6]  
Software Track

fall, spring, summer  
Continuation of CMPE 4371. Team project activities include software and hardware design reviews, implementation, quality assurance, software and hardware testing, integration, project documentation, presentations and demonstration.

Also covers social and ethical implications of the computer engineering profession. Prerequisite: CMPE 4371 in the previous semester. Cannot receive credit for both CMPE 4372 and CMPE 4374.

CMPE 4373 Senior Design I [1-6]  
Hardware Track

fall, spring, summer  
Apply the knowledge and skills gained in previous courses to synthesize a solution to a significant and realistic problem integrating software and hardware design. Participate in team project activities including problem formulation and proposal, project analysis, software and hardware requirements, specifications, project planning and software and hardware design. Software design documentation and oral presentation are an integral part of the course. CMPE 4373 should be taken in the last two semesters before graduating. Cannot receive credit for both CMPE 4371 and CMPE 4373.

CMPE 4374 Senior Design II [1-6]  
Hardware Track

fall, spring, summer  
Team project activities include software and hardware design reviews, implementation, quality assurance, software and hardware testing, integration, project documentations, presentations and demonstrations. Also covers social and ethical implications of the computer engineering profession. Prerequisite: CMPE 4373 in the previous semester. Cannot receive credit for both CMPE 4372 and CMPE 4374.

CMPE 4375 Introduction to VLSI [3-0]  
fall, spring, summer

This course provides an introduction to the area of CMOS VLSI design and design of VLSI circuits, including CMOS logic circuits, integrated circuit layout and design tools and overview of integrated circuit fabrication. Prerequisites: CMPE 2330 and CMPE 3403. Equivalent Course: ELEE 4375. A student may not receive credit for both CMPE 4375 and ELEE 4375.

CMPE 4378 Signal Integrity and [3-0]  
Electromagnetic Compatibility

fall, spring, summer  
Distortion of digital signals analyzed via lumped element and transmission line models, power distribution in electronic systems, printed circuit layout guidelines, basic electromagnetic principles as applied to shielding and grounding, EMI regulations. Prerequisite: ELEE 2321 or CMPE 2322. Equivalent Course: ELEE 4378. A student may not receive credit for both ELEE 4378 and CMPE 4378.

CMPE 4380 Computer Architecture [3-0]  
fall, spring, summer

This course presents an overview of digital computer architecture, including architectural issues for processors, instruction sets, microprogramming, memory hierarchy and interleaving, cache and virtual mapping. RISC principles and principles of pipelining and pipeline hazards, as well as input/

output devices. Prerequisite: CMPE 3437 or ELEE 3435. Equivalent Course: ELEE 4380. A student may receive credit for only one of the following: CMPE 4380, ELEE 4380, CSCI 4335, CMPE 4335.

CMPE 4381 Interactive Systems and User Interface Design [3-0]  
fall, spring, summer  
Presents principles and practice of information communication between user and system. The course examines results of past research, as well as evolving trends in interface design and implementation. Prerequisite: CSCI 3333, CMPE 3333 or consent of the instructor. Equivalent Course: CSCI 4381. A student may receive credit in only one course.

CMPE 4390 Computer Networks [3-0]  
fall, spring, summer  
This course covers engineering principles of data communications, including the following topics: communication media and signal encoding schemes, point-to-point communication standards, layering concepts, data-link protocols, network protocols, transport layer protocols, error control, flow control, congestion control, routing algorithms, virtual circuits, call setup procedure, TCP/IP protocol, internetworking, switching and switching fabric, frame relays, ATM and emerging technologies. Prerequisite: CMPE 4337 or junior standing. Equivalent Course: ELEE 4390. A student may not receive credit for both CMPE 4390 and ELEE 4390.

## Communication Disorders

NOTE: The American Speech-Language-Hearing Association (ASHA) defines areas within Communication Disorders for the purpose of describing programs and requirements. If applicable, the corresponding ASHA area is shown following each course.

COMD 1310 Beginning Sign Language [3-0]  
fall, spring, summer  
This course raises awareness of basic knowledge about American Sign Language and deaf people. Emphasis in the course is upon acquisition of both comprehension and production skills and knowledge of the deaf community interaction. The students will begin with visual readiness activities and then progress through group targeted lexical items taught within meaningful contexts that stress use of questions, commands and conversational rules such as attention-getting and turn-taking and basic finger-spelling skills also will be stressed. Prerequisite(s): None ASHA Standards III C, D.

COMD 1320 Intermediate Sign Language [3-0]  
fall, spring, summer

This course is a continuation of Beginning Sign Language (COMD 1310) and emphasizes expansion and refinement of the fundamental comprehension and production skills covered in Beginning Sign Language, with the acquisition of additional functional grammatical structure and targeted lexical items. Spontaneous, interactive use of American Sign Language is stressed through discussion of the deaf community and other activities being held by the deaf community. The students will continue to study information related to everyday life experiences of deaf Americans and deaf people anywhere in the world. Prerequisite: COMD 1310 or departmental approval. ASHA Standards III C, D.

COMD 2310 Introduction to Speech-Language Pathology [3-0]  
fall, spring

This course acquaints the prospective major with the profession of speech-language pathology, which will include requirements for entering the profession and professional issues. The course will also introduce students to five basic types of communication disorders and their etiologies. Prerequisites: None. ASHA Standards III B, C, D, IV, G a, b.

COMD 3310 Normal Language Development [3-0]  
fall  
A study of the theories of language development and language sampling. A description of language, sensory and motor development is presented. Prerequisites: Formal acceptance to COMD Program. ASHA Standards III B, C, D.

COMD 3315 Anatomy and Physiology of the Speech and Hearing Mechanism [3-0]  
fall  
A detailed study of the anatomical and physiological structure and function of the speech and hearing mechanism. Prerequisites: Formal acceptance to COMD Program. ASHA Standards III B, C, D.

COMD 3320 Phonetics [3-0]  
fall  
This is an in-depth course on the International Phonetic Alphabet and application of this symbol system to analyze various languages. This course will acquaint students with the phonetic symbols that are used to transcribe various dialects of General American English and acquaint them with transcription techniques utilized in the assessment of individuals diagnosed with communication disorders. Prerequisites: Formal acceptance to COMD Program. ASHA Standards III B, C, D and IV GA.

COMD 3330 Articulation Development [3-0]  
fall  
The course is a study of the theories of normal articulation and phonological development with emphasis on the practical applications of theory. Prerequisites: Formal acceptance to COMD Program. ASHA Standards III B, C, D, IV G a, b, c.

COMD 3340 Audiology I [3-0]  
spring

Basic orientation to audiology including physics of sound, anatomy and physiology of the hearing mechanism, pathology of hearing, and evaluation of hearing, which includes emphasis on pure tone and impedance audiometry. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330 and junior standing. ASHA Standards III B, C, D, IV G a, b, c.

COMD 3350 Introduction to Speech Science [3-0]  
spring

The course is a study of the structure and function of neuroanatomical parts that contribute to production and perception and processing of speech and language. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330. ASHA Standards III B, C, D.

COMD 3360 Neuroanatomy and Physiology for Speech, Language and Hearing [3-0]  
spring

The course is a study of the structure and function of neuroanatomical parts that contribute to production and perception and processing of speech and language. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330. ASHA Standards III B, C.

COMD 4310 Behavior Management for Speech-Language Pathology [3-0]  
fall

The course is a practical study of behavior management as it relates to and underlies speech and language intervention procedures. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350 and COMD 3360. ASHA Standards III C, D.

COMD 4330 Audiology (Re)Habilitation [3-0]  
fall

The course presents methods and techniques utilized in the aural (re)habilitation of individuals who are hard of hearing and deaf. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350 and COMD 3360. ASHA Standards III C, D.

COMD 4350 Clinical Applications [3-0]  
spring

This course is designed to provide exposure to speech-language pathology in various settings, analysis of client assessment and treatment profiles and journal research. This course may include observations, volunteer work in schools, or health care settings or assisting in the therapy process. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350, COMD 3360, COMD 4330, COMD 4360, COMD 4365 and COMD 4310. ASHA Standards III D, IV G a, b, c.

COMD 4360 Language Disorders in Children I [3-0]

PREPARE ▲ DISCOVER ▲ TRANSFORM ▲

fall

The course is a study of the characteristics of language development in children at risk. A sampling of three to five special populations will be presented. Students will be introduced to basic techniques for the clinical management of children with language disorders. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350 and COMD 3360. ASHA Standards III C, D, IV, G b, c.

COMD 4365 Functional Speech Disorders [3-0]  
fall

The course is an introduction to functional disorders of speech, which may include those that impact articulation, fluency, and voice. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350 and COMD 3360. ASHA Standards III C, D, IV G b, c.

COMD 4370 Professional Report Writing in Speech-Language Pathology [3-0]  
spring

A study of basic writing skills, scientific writing and professional writing, particularly for assessment reports, treatment plans, progress, reports and professional correspondence in speech-language pathology and other health professions. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350, COMD 3360, COMD 4330, COMD 4360, COMD 4365 and COMD 4310. ASHA Standards III D, IV G a, b, c.

COMD 4380 Clinical Problem-Solving [3-0]  
spring

The course is an orientation to the basic principles fundamental to clinical practice speech-language pathology. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350, COMD 3360, COMD 4330, COMD 4360, COMD 4365 and COMD 4310. ASHA Standards III C, D, IV G a, b, c.

COMD 4390 Principles in Assessment of Speech-Language Pathology [3-0]  
spring

The course is a study of diagnostic techniques and specific testing instruments utilized in the evaluation of articulation and language disorders. Prerequisites: C or higher in COMD 2310, COMD 3320, COMD 3310, COMD 3315, COMD 3330, COMD 3340, COMD 3350, COMD 3360, COMD 4330, COMD 4360, COMD 4365 and COMD 4310. ASHA Standards III C, D, IV G a, b, c.

## Communication

Following each entry in the course inventory is a code that lists the option to which the course can be applied. If a course has two codes, it is cross-listed between option areas.

The code is as follows:

CS = Communication Studies  
 TH = Theatre/TV/Film  
 JO = Journalism  
 GE = General Education

Students must seek advisement from the Department of Communication on a regular basis to discover when specific courses are to be scheduled and taught.

COMM 1301 Cinema Appreciation (GE) [3-0]  
 fall, spring, summer

This course is an introduction to the art of cinema for the non-major. Focus will be on critical viewing of films, identification and analysis of film form, technique, and content.

COMM 1302 Introduction to Communication [3-0]  
 fall, spring, summer

The course is designed to provide students with an overview of areas in communication (e.g., interpersonal, small group, and public communication). Students will develop necessary communication skills including listening, teamwork, interviewing, and public speaking that will benefit them both personally and professionally. Prerequisite: None.

COMM 1303 Presentational Speaking (CS) [3-0]  
 as scheduled

Instruction and practice in speech preparation and delivery. Includes audience analysis, selecting and developing the topic, drafting the speech outline, arranging and intensifying the speech, use of visual aids and supporting materials, effective delivery techniques and speech evaluation. Stresses logical thinking as a basis for formulation of the communication message.

COMM 1305 Acting I (TH) [3-0]  
 as scheduled

Improvisational acting techniques and the application of these principles to stage, television and film.

COMM 1308 Photography [3-0]  
 as scheduled

This course is an introduction to the techniques of taking photographs and the process of developing, printing, enlarging, cropping and dodging. Students cannot count these hours toward their major.

COMM 1310 Oral Interpretation (CS)(TH) [3-0]  
 as scheduled

Introduction and practice in the principles of speech as applied to the oral presentation of various literary forms. Includes prose and poetry, dramatic and duo-dramatic interpretation as well as storytelling.

COMM 1311 Technical Production I (TH) [3-0]  
 as scheduled

This course gives instruction and practice in the methods of construction, painting, rigging, shifting stage scenery and

properties, as well as the application of these techniques to television production.

COMM 1312 Technical Production II (TH) [3-0]  
 as scheduled

This course is a continuation of COMM 1311. It consists of instruction and practical experience in production problems, including lighting and sound.

COMM 1315 Survey of The Media (JO) [3-0]  
 (Texas Common Course Number is COMM 1335.)  
 as scheduled

This class will provide an overview of traditional and non-traditional media with an emphasis on the history and evolution of the different media in society.

COMM 1387 Speech Communication  
 (Honors Plan) (CS) [3-0]  
 as scheduled

Theory and intensive application of various elements of the speech communication process. Through lecture, class discussion and active participation, students have the opportunity to develop skills in communication behavior including listening, interviewing, small group interaction, audiovisual aid use and public speaking. Credit Restriction: Credit may not be received for both COMM 1387 and COMM 1313.

COMM 1615 Summer Theatre Workshop (TH) [6-0]

Designed to introduce beginning students to basic techniques of theatre staging through practical situations, this workshop requires students to participate in a series of productions for public viewing. Because of the intensive nature of this course, students are not allowed to take other studies or outside employment during their workshop enrollment period without permission of the instructor.

COMM 1616 Summer Television  
 Workshop (JO) (TH) [3-0]

An intensive workshop course in which students are responsible for all aspects of the production of a major dramatic work that will be produced for television and that will embody the principles of dramatic production in television form.

COMM 2101 Practicum 6  
 Theatre-TV-Film (TH) [1-0]

Participation in theatre, television or film programs sponsored by the department. One hour of credit requires a minimum of 60 hours of satisfactory participation plus any additional requirements set by the advisor. May be repeated for credit a maximum of four times.

COMM 2304 Television Production (JO) (TH) [3-0]  
 as scheduled

This course is an introduction to television studio operations with emphasis on television production. It covers cameras, microphones, lights, setting and performers.

- COMM 2306 Acting II (TH) [3-0]  
as scheduled  
Intensive study of the techniques of building and developing a characterization.
- COMM 2310 Introduction to Video and Film Edit [3-0]  
fall, spring, summer  
From television news to documentaries to feature films, the video/film editing step is the last re-write of any screen (TV or film) material before it is broadcast, cablecast, shown in theaters, or released either on DVD or the internet. Students will work with professional level software and acquire both the arts and crafts of assembling sound and visual images into finished, viewable productions. Prerequisite or Co-requisite: COMM 2304
- COMM 2312 Theatre Appreciation (TH) (GE) [3-1]  
as scheduled  
An introduction to the theatre, how to enjoy and understand plays, an appreciation and understanding of the various factors that make up a live theatre performance. Designed for non-majors.
- COMM 2313 Readings in Dramatic Literature (TH) [3-0]  
as scheduled  
Critical review and analysis of selected classic plays from Greek antiquity to the present time, designed to clarify the nature and major achievements of Western dramatic art. Equivalent Course: ENG 2313; may be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course.
- COMM 2315 Interpersonal Communication (CS) [3-0]  
as scheduled  
Instruction and activities in the principles of human communication and interaction. Includes self-concept, self-disclosure and risk, defensiveness, perception, empathy, semantics and abstraction, emotions and behavior, nonverbal communication, listening and feedback, relational communication, assertiveness and conflict management. Previous course number: COMM 1307; a student may receive credit in only one course.
- COMM 2319 Make-Up (TH) [3-0]  
as scheduled  
This course is a study of make-up for stage, film and television camera. It includes the study of make-up design and application and special effect make-up. Students must provide their own make-up for the course.
- COMM 2320 Costume Technology (TH) [3-0]  
as scheduled  
This course is a study of costume construction and technology with emphasis on problems encountered in patterning, draping, construction and fitting of costumes for the theatre and television.
- COMM 2321 Drawing and Rendering for the Theatre (TH) [3-0]  
as scheduled  
This course covers the processes of communicating design ideas through drafting, drawing and rendering and modeling. This course needs to be taken before any of the design classes or concurrently with the student's first class in design.
- COMM 3302 Speech for Stage and Screen (TH) [3-0]  
as scheduled  
An intensive course in high quality diction for those planning to speak professionally on stage, TV, radio or film. Work on diction, foreign accents and dialects. Some voice work included.
- COMM 3303 Writing for the Mass Media (JO) [3-0]  
as scheduled  
This course will focus on the various writing techniques required for different media. Student must pass skill test of grammar, spelling and punctuation.
- COMM 3304 Advertising (JO) [3-0]  
as scheduled  
Principles of advertising as they are applied and used in radio, television, film, print media and theatre. Practice in writing advertising copy, layout and design.
- COMM 3305 Copy Editing (JO) [3-0]  
as scheduled  
This course focuses on copy editing and headline writing using the Associated Press Style Manual as a guide. Prerequisites: COMM 3303 or consent of instructor.
- COMM 3306 Feature Writing (JO) [3-0]  
spring  
Interpreting trends in reader appeal; analyzing feature story structure; finding ideas for gathering materials; and writing and selling feature articles. Prerequisites: COMM 3327 or consent of instructor.
- COMM 3308 Creative Drama (TH) [3-0]  
as scheduled  
A study of informal drama in its application to the elementary classroom. Development of creativity through original dramatizations by children. Of special interest to the elementary teacher.
- COMM 3309 Scene Design (TH) [3-0]  
as scheduled  
This course teaches the principles of design as applied to modern stage and television production.
- COMM 3310 Lighting for the Stage, Film and TV (TH) [3-0]  
as scheduled  
Problems of lighting design and execution as applied to the various media of stage, film and television.
- COMM 3311 Contemporary Drama (TH) [3-0]  
as scheduled

A study of trends and movements in 20th century American, British and European drama with emphasis on works of major playwrights. Equivalent Course: ENG 3311; can be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. Prerequisite: Twelve hours of English.

COMM 3312 Costume Design (TH)  
as scheduled

This course teaches the principles of designing as applied to costumes for the various media ó stage, television and film.

COMM 3313 Business and Professional Communication [3-0]  
fall, spring, summer

An introduction to communication in the workplace. Topics include listening skills, interpersonal communication, organizational culture, and diversity, interviewing skills, communication in groups, teams and meetings, and developing and delivering effective business presentations. This course is designed for students who are in business, computer science, engineering, and other fields. Communication majors may take the course only with the consent of the instructor. Prerequisite: None.

COMM 3314 Persuasive Communication (CS) [3-0]  
as scheduled

Persuasive techniques and rhetorical principles as they apply to verbal and nonverbal communication where the goal is social influence. In-class speeches and projects stress practical application of persuasive strategies. Persuasive characteristics of contemporary culture, structure and content of persuasive messages, source credibility, propaganda, ethics and role of attitudes, belief systems and values in persuasive communication.

COMM 3315 Communication in  
Human Behavior (CS) [3-0]  
as scheduled

Application of the speech communication perspective as a dynamic process of human interaction. Significant issues and topics in interpersonal relationships, such as family communication, health communication, gender communication, social conflict and crisis communication and supervisory communication. May be repeated twice for credit.

COMM 3316 Intercultural  
Communication (CS) [3-0]  
as scheduled

Study of the symbolic and relativistic nature of culture and the resultant problems in attempting to communicate meaning across cultural lines.

COMM 3317 Speech for the  
Classroom Teacher (CS) [3-0]  
as scheduled

This course emphasizes methods for establishing a positive

communication climate in the classroom and for enhancing instruction through effective communication. Topics will include active listening, critical listening, storytelling and assessment of oral communication competencies.

COMM 3323 World Drama (TH) [3-0]  
as scheduled

Study of trends and movements in dramatic literature from ancient Greece through World War I. Emphasis on the works of major playwrights. Equivalent Course: ENG 3323; can be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. Prerequisite: Twelve hours of English.

COMM 3324 Cinematography/Videography (TH) [3-1]  
as scheduled

Principles of single camera ifilm style location video production. Using video equipment, students will produce short productions based on careful preproduction planning (scripting and storyboarding). Major stress on post-production editing and quality of finished product.

COMM 3325 Motion Picture History  
and Significance (TH) [3-0]  
as scheduled

Historical survey of motion pictures from 1890s to the present. Students will view, study and review major motion pictures from various periods, noting important periods, styles, genres and movements in the dramatic film (including foreign films and TV). Viewing lab arranged.

COMM 3326 American Film Genre [3-0]  
fall, spring summer

This course will offer an overview of the fourteen basic American film genres. Students will study their evolution from the silent days to the present and examine how commercial considerations have influence their development in both positive and negative terms.

COMM 3327 Reporting (JO) [3-0]  
as scheduled

An introduction to reporting focusing on writing articles in journalism style for print media, the course examines information gathering, interviewing techniques and reporting skills. Classes are conducted in computer lab rooms when available. Prerequisites: COMM 3303 or consent of instructor.

COMM 3328 Writing for Publication (JO) [3-0]  
as scheduled

This course stresses writing for a variety of publications, both print and electronic, with emphasis on in-depth research and writing. Prerequisites: COMM 3327 or consent of instructor.

COMM 3329 Specialized Reporting (JO) [3-0]  
as scheduled



This course focuses on analytical and investigative reporting. It outlines the quantitative and qualitative techniques required to produce accurate and comprehensive assessments of social, political and scientific issues. Prerequisites: COMM 3303, COMM 3327.

COMM 3330 Argumentation and Debate (CS) [3-0]  
as scheduled

Instruction and practice in the principles of argumentation and debate. Includes philosophies and concepts, forms of argument, analysis by issues and logical form, evidence and reasoning, positions of advocacy, refutation and rebuttal, cross-examination, ethics of argument and persuasion and communication strategies in contemporary society. Previous course number: COMM 2303; a student may receive credit for only one course.

COMM 3331 Principles of Interviewing (CS) [3-0]  
as scheduled

Theory, application and selected practice of the interview process in a variety of situations. Students have the opportunity to develop basic skills in selection, appraisal, counseling, discipline, exit, persuasive and focus interviews; interviews in mass media contexts, in data analysis and in other important techniques. Ethical guidelines stressed throughout.

COMM 3332 Organizational  
Communication (CS) [3-0]  
as scheduled

The study of the role of communication in organizational contexts. Previous course number: COMM 4306; a student may receive credit for only one course.

COMM 3333 Communication Theory (CS) [3-0]  
as scheduled

Comprehensive overview and analysis of the various significant theories of communication, with an historical grounding but emphasizing modern themes and perspectives.

COMM 3334 Communication through  
Group Process (CS) [3-0]  
as scheduled

Instruction and practice in group theory and technique. Includes principles and methods of discussion, interpersonal relations in groups, problem-solving and decision-making processes, conflict management in groups, sources and philosophies of group leadership, quality circles, preparation of agendas, rules of order and committee procedures and regulations. Previous course number: COMM 2302; a student may receive credit for only one course.

COMM 3335 Advanced Public Speaking (CS) [3-0]  
as scheduled

Theory and intensive application of various public speaking situations ó informative, persuasive and special occasion speeches. Critical thinking, analysis, reasoning, support for assertions, humor and clear organization are stressed. Ethical communication and an audience-centered approach are central issues. Prerequisite: COMM 1313 or COMM 1303.

COMM 3336 Media and Hispanics (JO) [3-0]  
fall, spring, summer

This course will cover the relationship between Hispanics and the media focusing on the history of Spanish-language media and the growth of the Hispanic media market.

COMM 3337 Global Communication (JO) [3-0]  
fall, spring, summer

This course will focus on the relationship between culture and communication with an emphasis on the differing techniques used in global communication.

COMM 3341 Acting III (TH) [3-0]  
as scheduled

This course is a study of work with partners in scenes. It gives the students practice in the techniques of working in large and small groups, working for specificity of character and developing responsive and responsible rehearsal techniques.

COMM 3342 Acting IV (TH) [3-0]  
as scheduled

This course consists of working with particular acting problems, such as characterization in the musical, individuation in group scenes, commercials, supporting partners, etc.

COMM 3350 Research in Communication (CS) (JO) [3-0]  
as scheduled

Major methods of research used in the concentration areas of communication: speech communication and journalism/mass media. Each student is responsible for the successful completion of a research project. Required of all communication majors. Previous course numbers: COMM 4324 and COMM 4325; a student may receive credit for only one course.

COMM 3401 Broadcast News Writing (JO) [4-0]  
fall

Development of skills and practice in the art of writing news for radio and television. Scripts will be written and evaluated as related to audience, medium and structure.

COMM 3403 Television News Production  
and Reporting (JO) [4-0]

spring  
Methods of gathering facts, words and images, then developing them into professional video newscasts, including audio and video recording, editing, production, delivery and transmission, within the scope of standard electronic journalistic ethics and practices. Prerequisite: COMM 2404.

COMM 4101 Practicum ó Theatre-TV-Film (TH) [1-0]

Participation in theatre, television or film programs sponsored by the department or other programs approved by the instructor. One hour of credit requires a minimum of 60 hours of satisfactory participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

COMM 4103 Practicum ó Forensics (CS) [3-0]

Participation in the forensics program of the University. One hour of credit requires a minimum of 60 hours of satisfactory

participation, plus any additional requirements set by the instructor. May be repeated for credit a maximum of four times.

COMM 4301 Directing I (TH) [2-0]  
as scheduled  
Study, observation and practice in selecting scripts and working with problems, methods and techniques of direction and production.

COMM 4302 Directing II (TH) [1-0]  
as scheduled  
A continuation of COMM 4301 with stress upon student direction and production of plays and television programs.

COMM 4303 Special Topics (CS)  
as scheduled  
For the advanced undergraduate, this course may be taken more than once if the topic changes. The class is designed to give students an opportunity to study a special advanced theatre topic not required in the undergraduate curriculum.

COMM 4304 Scriptwriting for Stage and Screen (TH) [3-0]  
as scheduled  
Advanced-level course in the art and craft of scriptwriting for stage and screen (motion picture and/or television). Course would be repeatable for credit with new work or work with different medium.

COMM 4306 Advanced Interpersonal  
Communication (CS) [3-0]  
as scheduled  
Examines various theoretical approaches for understanding human interaction in person-to-person settings. In addition, the following topics are covered: strategies, interaction, influence and language in conflict management approaches and stages in the development of interpersonal communication.

COMM 4307 Social and Political  
Movements (CS) [3-0]  
as scheduled  
Communication as an instrument of change within current political and social protest movements. Analysis of strategies and tactics of agitation and control. Study of pamphlets, speeches, underground publications, films, music, nonverbal symbols and body rhetoric. Includes such movements as the Far Right, New Left, Black Power, Chicano Movements and Women's Liberation.

COMM 4308 Special Problems in  
Rhetorical Criticism (CS) [3-0]  
as scheduled  
Significant issues and topics in rhetorical criticism. Principles of criticism applied to political and social communication behavior. May be repeated once for credit.

COMM 4309 Nonverbal Communication [3-0]

as scheduled  
This course offers an examination of the effects of human nonverbal behavior on human communication. Emphasis on specific nonverbal behaviors including touch, time, environmental contexts, physical appearance cues and social communication cues.

COMM 4312 Advanced Video and Film Editing [3-0]  
as scheduled  
Based on what students learned in the introduction to video and film editing, students will be exposed to advanced professional level software and acquire both the arts and crafts of assembling sound and visual images into finished, viewable productions. Prerequisite or Co-requisite: COMM 2304 and COMM 2310.

COMM 4313 Media Law and Ethics (JO) [3-0]  
as scheduled  
This course will cover freedom of the press, libel, invasion of privacy and the conflict between free press and fair trial. Media cases will also be examined as they relate to questions of ethics.

COMM 4314 Advanced Television/Film  
Production (JO) (TH) [3-0]  
as scheduled  
Advanced-level course stressing the application of basic arts and media developed in COMM 2404 and making use of advanced students in directing, technical crafts, performance and scriptwriting. May be repeated for credit with new production.

COMM 4315 History of the Theatre I (TH) [3-0]  
as scheduled  
A thorough study of the history of theatre from its origins until the end of the Jacobean era.

COMM 4316 History of the Theatre II (TH) [3-0]  
as scheduled  
A thorough study of the history of theatre from the Restoration to the present.

COMM 4317 Children's Theatre Workshop (TH) [3-0]  
as scheduled  
This is an intensive workshop course in which students are responsible for all aspects of the production of a major dramatic work that will be produced for children and that will embody the principles of dramatic production in forms suitable for elementary school audiences.

COMM 4318 Theory and Styles of Acting (TH) [3-0]  
as scheduled  
This course covers techniques of period acting and exploration of major theories of acting techniques.

COMM 4319 Problems in Acting (TH) [3-0]  
as scheduled  
This course teaches acting techniques to adapt performance to varying situations such as large and small proscenium, film and television. It also includes preparation of audition material and

problems in developing range of characterization.

COMM 4321 Public Relations (JO) [3-0]  
as scheduled

Planning and preparation of publicity materials for media, application of public relations techniques and clinical study of current public relations campaigns. Some laboratory work in the Department of Communication.

COMM 4322 Public Relations Writing (JO) [3-0]  
as scheduled

This is an intensive writing course. Student will be given the opportunity to research and write for a variety of formats such as news releases, backgrounds and pitch letters. Prerequisite: COMM 3303 or consent of instructor.

COMM 4326 Photojournalism (JO) [3-0]  
as scheduled

Principles and practices of photojournalism. Topics include news photography and interrelationship with text. Participation in campus publications is encouraged. Students must furnish 35mm camera and equipment. Prerequisite: COMM 1408 or consent of instructor.

COMM 4327 Mass Communication  
and Society (JO) [3-0]  
as scheduled

This course will provide an overview of the relationship between the mass media and society from a historical perspective and will examine current trends such as the impact of media technology on society. The different theories of the press as well as theories of mass communication will also be examined.

COMM 4330 Communication Training (CS) [3-0]  
as scheduled

Methods, techniques and practice in communication training programs and human resource development workshops will be addressed.

COMM 4332 Media Publishing (JO) [3-0]  
as scheduled

Computer production of a variety of print media publishing, including layout, design and writing.

COMM 4334 Communication Campaigns (JO) [3-0]  
as scheduled

This course will cover the development of communication campaigns from the initiation of a situation analysis, research to final execution. Students will also be given the opportunity to evaluate the effectiveness of campaigns. Prerequisites: COMM 3304, 4321, 3350, 4335 or consent of instructor.

COMM 4335 Creative Strategies  
and Media Planning (JO) [3-0]  
as scheduled

This course will focus on the development of effective creative strategies based on solid research and clear objectives. Media planning, buying and placing will also be covered. Prerequisites: COMM 3304 or consent of

instructor.

COMM 4336 Applied Leadership  
Communication (CS) [3-0]

as scheduled

In this course theoretical models used to identify different leadership styles employed in organizations are studied. The various leadership styles and their associated communicative behaviors are closely examined. Prerequisite: COMM 3332.

COMM 4337 Professional Internship Cooperative  
Education-Communication [1-0]

A planned program of work (10 hours per week), for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report. Students have to have adviser approval to enroll. May be repeated for credit up to three times when the program varies.

COMM 4417 Radio and Television  
Advertising Production (JO) [3-3]

as scheduled

Application of principles of advertising to production of radio and television commercials. Prerequisites: COMM 2404 and COMM 3304.

COMM 4615 Summer Theatre Workshop (TH) [3-0]

For the advanced undergraduate, experience in all areas of theatrical presentation. Students assume responsibility for one or more of the following areas: technical theatre production problems in acting and directing, or theatre business management. Because of the intensive nature of this course, students are not allowed to take other studies or outside employment during the workshop enrollment period without permission of the instructor.

COMM 4616 Summer Film and  
Television Workshop (TH)

For the advanced undergraduate, an intensive workshop in which students are responsible for the production of a major dramatic work that will be produced for television and that will embody the principles of dramatic production in television form. Journalism students taking the course will produce a documentary concerning the production.

COMM 4624 Education - Communication Studies  
Professional Internship Cooperative  
Education-Communication [2-0]

A planned program of half-time (20 hours per week) work, for a minimum of one semester or two continuous summer sessions, related to the field. Enrollment must be completed prior to the work period. Students should be classified as seniors. Credit will be determined on the basis of satisfactory employer's evaluation and the student's written report. Students have to have adviser approval to enroll. Course may

be repeated for credit once when the program varies.

## Criminal Justice

NOTE: The entire course inventory is not offered each semester. Students are advised to plan ahead when making decisions about their semester schedules.

CRIJ 1301 Introduction to the Criminal Justice System [3-0]

(Texas Common Course Number is CRIJ 1301.)

The history, development and philosophy of the criminal justice system; an overview of law enforcement, courts and corrections subsystems.

CRIJ 1306 Court Systems and Practices [3-0]

(Texas Common Course Number is CRIJ 1306.)

The judiciary in the criminal justice system; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence; sentencing. Previous course number: CRIJ 2333; a student may receive credit in only one course.

CRIJ 1307 Crime in America [3-0]

(Texas Common Course Number is CRIJ 1307.)

American crime problems in historical perspective; social and public policy factors affecting crime; crime impact and trends; social characteristics of specific crimes; prevention of crime. Previous course numbers: CRIJ 2301 and CRIJ 3361; a student may receive credit in only one course.

CRIJ 2313 Correctional Systems and Practices [3-0]

(Texas Common Course Number is CRIJ 2313.)

Corrections in the criminal justice systems; correctional role; institutional operations, alternatives to institutionalization; treatment and rehabilitation; current and future issues. Previous course number: CRIJ 2342; a student may receive credit in only one course.

CRIJ 2328 Police Systems and Practices [3-0]

(Texas Common Course Number is CRIJ 2328.)

The police profession; organization of law enforcement systems; the police role; police discretion; current and future issues. Previous course number: CRIJ 1313; a student may receive credit in only one course.

CRIJ 2335 Legal Aspects of Corrections [3-0]

Legal problems and principles from conviction to release, to include consideration of convictions, imprisonment, sentencing, conditional release, post-conviction procedures, prisoner rights, probationer rights and validity of conviction. Previous course number: CRIJ 3331; a student may receive credit in only one course.

CRIJ 3303 Criminology [3-0]

Provides an overall perspective of the crime problem with special emphasis given to philosophical and theoretical ideas pertaining to crime causation and its control. Includes victimology and criminal typologies.

CRIJ 3304 Criminal Justice Research Methods [3-0]

A review of current literature and examination of selected problems affecting the criminal justice system; instruction of steps involved in the scientific approach to problem solving. Discussion of research techniques and paper writing; applications of research in criminal justice. Previous course number: CRIJ 3402; a student may receive credit in only one course.

CRIJ 3305 Statistical Applications in Criminal Justice [3-0]

The course focuses on use and application of statistics in Criminal Justice: the study of crime, policing, courts and sentencing, corrections, and crime control; students learn from criminal justice research to do projects using parametric and non-parametric statistics; they learn frequency distribution, central tendency, dispersion, probability theory, chi-square, correlation; regression, hypothesis testing, decision-making and impact evaluations relevant to aforementioned criminal justice areas. Prerequisites: MATH 1340, MATH/STAT 2330, or equivalent, or higher level mathematics (MATH) or statistics (STAT) course, except MATH 1348; and advanced sophomore standing. CRIJ 3304-Criminal Justice Research Methods is highly recommended.

CRIJ 3310 The Constitution and Criminal Law [3-0]

Relationship between the U.S. and Texas constitutions and criminal law; constitutional foundations of criminal law and procedural rights of the accused; rights of the accused from police intervention through criminal processing of cases and trial; examination of prisoners' rights and post-conviction remedies. Prerequisite: Advanced sophomore standing.

CRIJ 3320 Juvenile Delinquency and Justice [3-0]

Examination of causes of delinquency; distribution and patterns in delinquency over time and space, by age, gender, and ethnicity; individual and collective forms of delinquency in community and school contexts; history, development and philosophy of juvenile courts; legal rights of juveniles, and the judicial processing of juveniles; critical evaluation of the current juvenile justice practices, and punishment, rehabilitation and prevention programs. Prerequisite: Advanced sophomore standing.

CRIJ 3325 Violent Crime [3-0]

Genesis of violence and its expression in criminal and noncriminal forms; theories of violence; subculture of violence; victim-offender interactions; types of violent crimes, such as homicide, assault, robbery, and rape; domestic abuse and violence; distribution of violent crimes; gender, class, race and crime; proactive and reactive

measures to control violent crimes. Prerequisite: Advanced sophomore standing.

CRIJ 3341 Probation and Parole [3-0]  
The philosophy, history and principles of probation, parole and other community-based treatment programs; philosophy of punishment and rehabilitation; trends, practices and current research in probation and parole, including methods of analysis, selection and prediction.

CRIJ 3344 Gender, Crime and Criminal Justice [3-0]  
The course will focus on female criminality, gendered victimization; punishment, treatment, correction of female offenders; female inmate subculture and women workers in the criminal justice system. Social ideologies about race, class and gender will be examined as to their relevance in shaping and defining crime, criminology and the sociolegal treatment of offenders, victims and professionals.

CRIJ 3355 Criminal Evidence and Proof [3-0]  
This course explores how the legal system has developed a complicated yet effective process for controlling the production of relevant evidence in making decisions in forensic proceedings. Study of the balance of competing interests in presenting information in court, whether in pretrial motions, in camera proceedings or public trial.

CRIJ 4311 Criminal Justice Administration [3-0]  
Study of organizational and administrative theory and its application to police departments, court systems and correctional settings. Looks at how philosophies used in business can be applied to not-for-profit and public agencies for better management of physical and human resources. Covers social trends and recent issues affecting criminal justice administration.

CRIJ 4312 Civil Liability in Criminal Justice [3-0]  
Study of statutes, case law and research in areas of civil rights and civil liability particular to employees and supervisors in the criminal justice system. Examination of legal issues, litigation trends and patterns in the federal courts, policy and procedure issues, failure to train liability, and individual officer and administrative responsibilities in this contentious subject area.

CRIJ 4313 Current Issues in Law Enforcement [3-0]  
Analysis and discussion of contemporary issues in policing with particular attention to current developments, service delivery and the changing police role. Integration of established scientific knowledge with practical police experiences in various areas of policing.

CRIJ 4314 Private Security and Loss Prevention [3-0]  
This course analyzes critical issues in the administration and supervision of private security organizations, with an

emphasis on preventing retail theft, or loss prevention. Examination of legal and ethical issues in public surveillance for private benefit, detecting employee malfeasance, cost-benefit analysis, inventory control and audit systems and cutting-edge technologies for use in crime prevention.

CRIJ 4316 Environmental Crime and Justice [3-0]  
Examines environmental problems, crimes, and justice; bodily and property harms and crimes from local, regional, and global environmental problems; point source and non-point 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. Prerequisite: Junior standing.

CRIJ 4321 White-Collar and Organized Crime [3-0]  
This course surveys sociological, criminological and criminal justice theories and approaches to classifying white-collar, corporate and organized crime and deviance. Beginning with classic articles and continuing with case studies of corporate and organized criminality and irresponsibility, this course examines social, legal and ethical issues surrounding racketeering, crime in the suites, and their punishment.

CRIJ 4322 Terrorism [3-0]  
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 terroristic incidents and groups; their underpinning meanings and what can be done to contain terrorism. Prerequisite: Junior standing.

CRIJ 4335 Restorative and Community Justice [3-0]  
Principles and ideas of restorative justice and community justice, in comparison with the current system of justice; promoting justice and reducing crime by restoring relationship between victims and offenders. Rebuilding communities and creating community sentiments in favor of doing justice in the community, in cooperation with and support of the Official justice system; making altruistic, reconciling and peace-making individuals and community through restorative and community justice efforts to reduce crime. Prerequisite: Junior standing.

CRIJ 4343 Current Issues in Corrections [3-0]  
Analysis and evaluation of contemporary correctional systems; discussion of recent research concerning correctional institutions and various corrections field services. Emphasis is given to both administrative and treatment concerns in corrections.

CRIJ 4350 Peace, Nonviolence, and Justice [3-0]  
Theories and conceptions of peace, nonviolence, and justice; peace as harmony among self, society, and humanity; and among offenders, victims, and society; achieving peace

without the violence found in crimes, revolts, revolutions, terrorism and punishments; proactive and reactive ways of nonviolent justice, practices needed for personal, social, and global peace.

**CRIJ 4355 Current Issues in the Courts [3-0]**  
Analysis and discussion of contemporary issues in the courts, with particular emphasis on trends, service delivery to victims, defendants and the community, and the changing role of courts in society. In-depth study of drug courts, juvenile courts, community courts and prosecution, tribal justice and other specialized means of adjudication and disposition of criminal and delinquency cases.

**CRIJ 4356 Law and Society [3-0]**  
This course emphasizes the complexity and interrelationship of legal, social and ethical issues in their historical and comparative contexts. By examining the role of the legal system in society and specific legal issues from the perspectives of the social sciences and the humanities, students will be able to analyze and understand the legal implications and ramifications of policy and decision making.

**CRIJ 4357 Crime Prevention Techniques [3-0]**  
This course examines the theories and techniques of mobilizing community resources for crime prevention. Implementation and evaluation of crime reduction efforts through crime prevention through environmental design, routine activities and situational crime prevention case studies, and physical planning of the built environment will be studied. The conceptual framework will draw from principles of community psychology and environmental criminology.

**CRIJ 4361 Comparative Criminal Justice Systems [3-0]**  
This is an upper-division course elective. The course's primary goal is to introduce students to the idea of a world criminal justice system. Several countries will be selected each semester. A survey of the criminal justice systems (government, police, judiciary, laws, corrections and juvenile justice) will be conducted of each of the countries.

**CRIJ 4362 Special Topics in Criminal Justice [3-0]**  
Designed to give advanced undergraduate students academic flexibility and the opportunity to study contemporary issues in crime and criminal justice.

**CRIJ 4363 Independent Studies in Criminal Justice [3-0]**  
Designed for advanced students who are capable of independent study and research to examine an issue or project of specific interest. Registration upon approval of the Chair of the Department of Criminal Justice and the professor directing the course.

**CRIJ 4364 Field Internship [3-0]**  
Three hours per week studying job interview techniques. Placement in a criminal justice agency or related experience for on-the-job training for a minimum of 120 hours. Evaluation of student and agency critiques, daily logs and a

weekly meeting with the intern coordinator. Previous course number: CRIJ 4401, CRIJ 4464; a student may receive credit in only one course.

**CRIJ 4399 Criminal Justice System: Capstone [3-0]**  
This course is intended to serve as a capstone course. It will give students the opportunity to complete a comprehensive overview of and demonstrate the ability to integrate all facets of the criminal justice system in the United States: philosophy, history and development of criminal justice institutions, functions, current controversial issues and future trends. Prerequisites: For seniors graduating at the end of the semester in which the course is taken.

## Computer Science

**CSCI 1170 Engineering Computer Science I Laboratory [0-3]**

fall, spring, summer

The course includes hands-on instruction and laboratory exercises in developing programs written in a high-level object-oriented programming language applying the principles taught in the CSCI 1370 lecture course. Co-requisite: CSCI 1370. Equivalent course: CMPE 1170. A student may receive credit in only one course.

**CSCI 1201 Introduction to Computer and Information Technology [2-0]**

fall, spring, summer

A computer literacy course to develop awareness of the expanding role of computer and information technology and to provide knowledge and skills related to personal and social uses of computers. Topics include applications of computers, societal and ethical issues involving computers, history, the Internet, packaged software and hardware and software terminology. Assignments will be given to provide hands-on experience in personal software packages and information networks. Students with limited or no computer experience are advised to enroll in CSCI 1300.

**CSCI 1202 Computer and Information Technology for Education [2-0]**

fall, spring, summer

A computer literacy course targeted to education majors to develop awareness of the expanding role of computer and information technology and to provide knowledge and skills related to personal, professional, and social uses of computers. Topics include applications of computers and information technology, societal, and ethical consequences of technological innovation, history, the impact of the Internet on learning and information access. Course will include hands-on experience in personal and professional software packages, and information networks. Fulfills Computer Literacy Core Requirements. Equivalent course: CSCI 1201. Students can receive credit for only one of CSCI 1201 and

CSCI 1202. Will replace a grade received in CSCI 1201.

CSCI 1300 Foundations of Modern Information Technology [3-0]  
fall, spring, summer

The course presents the foundations of computer and information technology related to its expanding role in communicating, solving problems and acquiring information in all aspects of society. Knowledge and skills related to personal and professional uses of personal computers and information networks will be developed along with the critical thinking skills necessary to evaluate and learn new technologies as they become available. Topics include applications of computers, limitations and potentials of information technology, societal ethical issues involving computers, history and hardware and software terminology. Assignments will be given to provide hands-on experience in personal software packages and information networks.

CSCI 1360 Introductory Computer Science Concepts [3-0]  
fall, spring, summer

This course is recommended for students who need an introduction to the concepts of computer science and programming experience before taking CSCI 1380. Topics include concepts of computer hardware, software and networks; Internet services; and computer programming. Focuses on basic problem-solving techniques and algorithms development. Assignments will be given to provide hands-on experience in a high-level language programming. Prerequisite: Student with computer experience. This course fulfills the core curriculum requirements.

CSCI 1370 Engineering Computer Science I [3-0]  
fall, spring, summer

An introduction to computer science and computer engineering. The fundamentals of a high-level programming language will be introduced. Methods of problem solving, techniques of algorithmic development and concepts of procedural and object-oriented programming will be emphasized. Societal and social issues related to computer engineering will be introduced. Prerequisites: CSCI 1300 or equivalent experience and grade of C or better in MATH 1340 or placement in a higher-level Math course. Co-requisite: CMPE 1170. Cannot receive credit for both CSCI 1380 and CMPE 1370. Will replace a grade received in CSCI 1380. Equivalent course: CMPE 1370. A student may receive credit in only one course.

CSCI 1380 Computer Science I [3-0]  
fall, spring, summer

An introduction to computer science and computer programming is given, in which the fundamentals of a high-level programming language will be introduced. Methods of problem-solving, techniques of algorithmic development

and concepts of structured object-oriented programming will be emphasized. For degree programs requiring a three hour course in computer science. Two hours will fulfill Computer Literacy Core requirement. Equivalent courses: CSCI 1370 or CMPE 1370. A student may receive credit for only one course from CSCI 1380, CSCI 1370 or CMPE 1370. Will replace a grade received in CSCI 1370 or CMPE 1370. Prerequisite: Concurrent Enrollment in MATH 1340 or credit for MATH 1340 or higher level mathematics course.

CSCI 1381 Foundations of Computer Science [3-0]  
fall, spring, summer

This course presents an examination of the breadth of computer science that continues the introduction to the field of computer science first begun in CSCI 1380. Topics Include an introduction to the mathematical foundations of computing, basic computer architecture, assembly language, the operating system and networks, algorithms and complexity, programming languages, software engineering, data organization, social and ethical issues of a computerized society and an overview of various computer science fields and topics. Programming projects will be given to reinforce and enhance the programming experience that began in CSCI 1370. Prerequisite: CSCI 1370.

CSCI 1387 Computer Science I (Honors) [3-0]  
fall, spring, summer

This course introduces a high-level programming language. Methods of problem-solving, techniques of algorithmic development and concepts of structured object-oriented programming will be emphasized. Students are required to complete an integrated project entailing the development and implementation of a program for solving a given problem. Prerequisites: Concurrent enrollment in MATH 1340 or credit for MATH 1340 or higher level mathematics course.

CSCI 1388 Foundations of Computer Science (Honors) [3-0]  
fall, spring, summer

This course gives an introduction to the mathematical foundations of computing, computer architecture, assembly language, the operating system and networks, problem-solving algorithms and complexity, programming languages, software engineering, data organization, social and ethical issues of a computerized society and an overview of various computer science fields and topics. Programming projects will be given to reinforce and enhance the programming experience that began in CSCI 1387. Prerequisite: CSCI 1370 or CSCI 1387.

CSCI 2302 Web Graphics and Animation [3-0]  
as scheduled

This course introduces modern 2-D graphics and animation techniques and methods on the Web. Basic image processing techniques, image formats and client side scripting for Web use will be discussed. Current software tools for developing graphical dynamic Web sites will be presented. Students are required to develop and implement active Web pages.

CSCI 2320 Computer Programming  
in a Second Language [3-0]  
as scheduled  
Computer programming in a high-level programming  
language such as Ada, Modula-2, Java, LISP and PROLOG.  
May also cover two different languages, such as both LISP and  
PROLOG. Designed for students who already know how  
to program in another high-level language. May be repeated  
when languages change. Prerequisite: CSCI 1380 or CSCI  
1370 or CMPE 1370.

CSCI 2333 Computer Organization and  
Assembly Language [3-0]  
fall, spring, summer  
An introduction to computer organization, use of assembly  
language programming, basic instruction sets, arithmetic and  
logical operations, addressing modes and macro definition.  
Several computer programming projects are included.  
Prerequisite: CSCI 1381 or 1387 or CMPE 1370. Equivalent  
course: CMPE 2333. A student may receive credit in only  
one course.

CSCI 2344 Programming in the UNIX®/  
Linux Environment [3-0]  
fall, spring, summer  
The course presents the UNIX file system, the commonly  
used utilities, editors, shell programming and scripting. It  
includes instruction in software development in the UNIX/  
Linux environment. In addition, a brief overview of the  
internal components of the operating system will be covered.  
Prerequisites: CSCI 1370 or CSCI 1380 or CSCI 1387 or  
consent of instructor.

CSCI 2380 Computer Science II [3-0]  
fall, spring, summer  
A second programming course includes problem solving by  
structured design; provides an introduction to elementary  
data structures, including linked lists, stacks, queues,  
trees and graphs, and advanced programming techniques,  
including recursion, sorting and searching. Prerequisite:  
CSCI 1381 or CSCI 1388 or CSCI 1370 or CMPE 1370 or  
consent of instructor. Equivalent course: CMPE 2380. A  
student may receive credit in only one course.

CSCI 2388 Computer Science II (Honors) [3-0]  
fall, spring, summer  
This course problem-solving by object-oriented design and  
development; covers elementary data structures, including  
linked lists, stacks, queues and binary trees, with an  
introduction to graphs, advanced programming techniques,  
including recursion and sorting and searching algorithms.  
Students are required to complete problem-solving projects.  
Prerequisites: CSCI 1381 or CSCI 1388 or CSCI 1370 or  
CMPE 1370 or consent of instructor.

CSCI 3300 Internship in Computer Science [3-0]  
fall, spring, summer  
This course is designed to give students an opportunity to  
gain practical experience in the computer science career  
field by working with a participating employing firm or

organization. The student will be supervised by a faculty  
member acting as a liaison between the University and the  
employing organization to ensure compliance with specific  
learning and experience requirements. The employment  
can be either paid or unpaid, and normally would include  
practical experience spread over one academic term or  
summer. May be repeated once. A maximum of three hours  
of credit from CSCI 3300 can be used toward the computer  
science major. Prerequisite: Upper-division standing,  
minimum 12 hours of computer science completed and  
approved by both the department and employer providing  
the practicum/internship experience.

CSCI 3326 Object-Oriented  
Programming in Java [3-0]  
fall, spring, summer  
The Java programming language and environment will  
be introduced with an emphasis on object-oriented  
programming. Application areas will include Internet-based  
programming, applets, and HTML, and topics will include  
control structures, classes, methods, inheritance, Java libraries  
and packages. Object-oriented aspects will include graphics,  
GUI, exception handling, multithreads, multimedia and  
networking. Prerequisites: CSCI 1380 or CSCI 1370 or  
CMPE 1370 or consent of instructor.

CSCI 3327 Object-Oriented Programming  
in Visual Basic [3-0]  
fall, spring, summer  
The Visual Basic programming language and environment  
will be introduced with an emphasis on window-based  
programming and the use of objects in Visual Basic. Topics  
will include control structures, graphical user interface concepts,  
classes, methods, inheritance and the Visual Basic interface and  
libraries. Prerequisites: CSCI 1380 or CSCI 1370 or CMPE  
1370 or consent of instructor.

CSCI 3328 Object-Oriented Programming  
In C# [3-0]  
fall, spring  
The C# programming language and .NET environment  
will be introduced with an emphasis on windows-based,  
event driven programming and the use of objects, LINQ  
and XML. Topics may include UML, generic collections,  
database connections, XML, inheritance and polymorphism,  
exception handling, event driven programming, concurrent  
programming, windows forms, files and streams, databases,  
and Web Services. Prerequisite: CSCI 1380 or CMPE 1370  
or consent of instructor.

CSCI 3333 Algorithms and Data Structures [3-0]  
fall, spring, summer  
This course is a continuation of data structures topics  
covered in CSCI 2380. Content includes theoretical topics in  
algorithmic efficiency and complexity, along with abstract data  
types, including graphs, networks, trees and priority queues.  
Search topics, including hashing, trees, external search trees  
(B-trees) and sorting algorithms including external sorting are  
introduced and compared. Computational complexity topics  
include the Class P and NP, NP-completeness and Reducibility,



NP-completeness Proofs and NP-complete Problems.  
Prerequisites: CSCI 2380 or CMPE 2380 and concurrent enrollment in MATH 3373. Equivalent course: CMPE 3333. A student may receive credit in only one course.

CSCI 3334 Systems Programming [3-0]  
fall, spring

This course covers the design and implementation of system software. It investigates the relationship between software design and machine architecture. Topics may include assemblers, macroprocessors, compilers, loaders, debugging environments, program development and archival tools, command language interpreters (shells), file systems, I/O support, processes, threads and inter-process communication. Prerequisites: CMPE 2333, or ELEE 3435 or CMPE 3437. Equivalent course: CMPE 3334. A student may receive credit in only one course.

CSCI 3336 Organization of Programming Languages [3-0]

fall, spring, summer  
This course describes the fundamental concepts of programming languages by discussing the design of the various language constructs, examining the design choices for these constructs, critically comparing design alternatives and discussing implementation techniques. The underlying theory and formal modes of describing the syntax and semantics including finite automata and regular expressions, context-free grammars, context-sensitive languages and the Chomsky Hierarchy are included. Prerequisites: CSCI 2380 or CMPE 2380.

CSCI 3340 Software Engineering I [3-0]  
fall, spring, summer

A formal approach to the state-of-the-art techniques in software design and development. Emphasis will be on project planning, requirements, specification and system design and includes object design, testing and implementation. Provides the student with the opportunity to work on large projects in a group situation. Prerequisite: CSCI 2380 or CMPE 2380, and three advanced hours in CSCI courses. Equivalent course: CMPE 3340. A student may receive credit in only one course.

CSCI 3341 Software Engineering II [3-0]  
fall, spring, summer

The course will cover the analysis of requirements and software architecture and with a major emphasis on object design, implementation, testing and validation, maintenance and software re-engineering. It will provide the student with the opportunity to work on large projects in a group situation. Prerequisite: CSCI 3340 or CMPE 3340. Equivalent course: CMPE 3341. A student may receive credit in only one course.

CSCI 3342 Internet Programming [3-0]  
fall, spring, summer

Focuses on programming techniques and methods and technologies on the Internet. Topics include HTTP (Hypertext Transfer Protocol) protocol, networking

techniques, data transmissions and the use of Java Applets, multithreading, RMI (Remote Method Invocation), CGI (Common Gateway Interface) and Java Servlets in programming and Web site development. Prerequisites: CSCI 3326 or consent of instructor.

CSCI 3344 UNIX®/Linux Operating System [3-0]

as scheduled  
This course provides a detailed study of operating system principles as seen in the UNIX®/Linux system kernel including initialization, scheduling, context switching, process management, memory management, device management and the file system. A student may receive credit in only one of the courses CSCI 3344 and CSCI 4334. Prerequisites: CSCI 3333 and CSCI 3334, or consent of instructor.

CSCI 3350 Numerical Methods [3-0]  
as scheduled

This course studies the numerical solutions to various problems occurring in engineering, science and mathematics. These problems include finding solutions to nonlinear equations, solutions to linear and nonlinear systems of equations, interpolation of data, approximation of functions, numerical integration and solutions to differential equations. It also studies the influence of data representation and computer architecture on the choice and development of algorithms. Equivalent course: MATH 3368, a student may receive credit in only one course. Prerequisite: MATH 1401 and CSCI 1380 or CSCI 1370 or CMPE 1370.

CSCI 4301 Digital Image Processing [3-0]  
fall, spring, summer

The course presents fundamental concepts and applications of digital image processing. Topics include basic color, image perception and transformation, image enhancement and compression and image analysis and computer vision. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent course: CMPE 4301. Students may receive credit for only one course.

CSCI 4302 Multimedia Systems [3-0]  
as scheduled

This course presents the broad field of multimedia systems. Topics include the digital interactive multimedia, creation of multimedia, and various issues involving technology, design and effectiveness of multimedia applications. Students will have the opportunity to learn programming techniques for integrating video, sound, animation and graphics for multimedia systems. Prerequisite: CSCI 3333 or CMPE 3333 or consent of instructor.

CSCI 4310 Design and Analysis of Algorithms [3-0]

fall, spring, summer  
The course presents elements of the design and analysis of computer algorithms. Topics include in-depth study of algorithms' design strategies such as dynamic programming, divide-and-conquer and greedy methods; algorithms for graph problems, geometric problems and other selected

problems; and computational complexity. Prerequisite: CSCI 3333 or consent of instructor.

CSCI 4318 Cyber Security & Forensics [3-0]  
fall, spring

Computer security fundamentals, standards of good practice, and incident response strategies are presented. Topics include volatile and nonvolatile data analysis, network based evidence collection, forensic analysis techniques, web, email, and registry activity reconstruction and study of available tools. Prerequisite: CSCI 1381.

CSCI 4325 Automata, Formal Languages  
and Compatibility [3-0]  
fall, spring, summer

The course presents formal computation models. Topics include finite state machine, pushdown state machine, Turing machine, halting problem, definition and properties of formal grammars and their languages as well as theory of computability and complexity including the complexity of optimization and approximation problems. Prerequisite: CSCI 3333 or CMPE 3333 and CSCI 3336.

CSCI 4327 Compiler Construction [3-0]  
fall, spring, summer

Syntax analysis and semantic processing for a block-structured language. Compilation vs. interpretation; lexical analysis based on finite automata; syntax-directed translation; symbol tables; run-time storage allocation; error detection and recovery; code generation and optimization. Students are required to write a compiler. Prerequisite: CSCI 3334 or CMPE 3334 or consent of the instructor. Equivalent course: CMPE 4327. A student may receive credit in only one course.

CSCI 4333 Database Design and  
Implementation [3-0]  
fall, spring, summer

Study of logical (hierarchical, network, relational) and physical (sequential, indexed, relative) organization of databases. Database management systems and their features, querying databases, distributed databases and data compression. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent course: CMPE 4333. A student may receive credit in only one course.

CSCI 4334 Operating Systems [3-0]  
fall, spring, summer

This course provides a study of the basic concepts of operating systems: process management, memory management, file systems, resource allocation and protection. Prerequisites: CSCI 3333 or CMPE 3333, and CSCI 3334 or consent of the instructor. Equivalent course: CMPE 4334.

CSCI 4335 Computer Architecture [3-0]  
fall, spring, summer

A study of the operational units and their interconnections of a modern computer as well as the theory behind the

design of the instruction set, control unit, registers, memory hierarchy and addressing modes, bus structures, input/output and storage units. Similarities between CISC and RISC architectures and related issues such as instruction level parallelism and superscalar processors are discussed. Prerequisite: CSCI 2333 or CMPE 2333 or CMPE 3437, and CSCI 3333 or CMPE 3333. Students may receive credit for only one of CSCI 4335, CMPE 4335, CMPE 4380 or ELEE 4380. Equivalent course: CMPE 4335.

CSCI 4336 Parallel and Distributed  
Computing [3-0]  
fall, spring, summer

Presents principles and practices of parallel and distributed computing. Topics include parallel and distributed computation models and architectures; design, analysis and implementation of parallel algorithms; and methods of parallel and distributed programming. Prerequisite: CSCI 4335 or CMPE 4335 or CMPE 4380. Equivalent course: CMPE 4336. A student may receive credit in only one course.

CSCI 4341 Topics in Computer Science [3-0]  
as scheduled

Topics or problems in Computer Science; subject matter changes from semester to semester. May be repeated for credit as topic varies. Prerequisite: Consent of instructor.

CSCI 4343 Software Verification, Validation  
and Quality Assurance [3-0]  
fall, spring, summer

Course topics include methods for evaluating software for correctness and reliability including code inspections and their role in software verification; program proofs and testing methodologies; formal and informal proofs of correctness; unit and system testing techniques, testing tools and limitations of testing; statistical testing; and reliability models. Prerequisites: CSCI 3340 or CMPE 3340.

CSCI 4345 Computer Networks [3-0]  
fall, spring, summer

An introduction to data communication topics, including data transmission, encoding, data link control, switching, network topologies, protocols, internet working and data security. Examples of existing networks and network architectures are studied. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent course: CMPE 4345. A student may receive credit in only one course.

CSCI 4346 Advanced Operating Systems [3-0]  
as scheduled

This course provides a survey of the design and implementation of distributed operating systems, both by introducing basic concepts and considering examples of current systems. Topics include: communication, synchronization, processor allocation and distributed file systems. Prerequisite: CSCI 3344 or CSCI 4334 or consent of instructor.

CSCI 4350 Artificial Intelligence [3-0]  
fall, spring, summer

Study of intelligent machines and machine learning. Includes problem solving and heuristic search, natural language understanding, game playing, database and expert systems. Artificial Intelligence projects will be implemented using an AI language such as Lisp, Prolog, C++ or Java. Prerequisite: CSCI 3333 or CMPE 3333. Equivalent course: CMPE 4350. A student may receive credit in only one course.

CSCI 4360 Computer Graphics and Interactive Systems [3-0]

fall, spring, summer

Presents fundamental concepts of computer graphics. Topics include display hardware, transformations, geometric modeling, shading two- and three-dimensional display algorithms and graphics software systems. Prerequisite: CSCI 3333 or CMPE 3333 or consent of instructor.

CSCI 4363 Advanced Computer Networks and Network Security [3-0]

fall, spring, summer

This course examines the internetworking architecture and routing, design and implementation issues related to secure and reliable networks, cryptography, firewalls, digital signatures, worms, viruses, logic bombs and spyware. Prerequisite: CSCI 4345 or CMPE 4345. Equivalent Course: CMPE 4363. A student may receive credit in only one course.

CSCI 4381 Interactive Systems and User Interface Design [3-0]

fall, spring, summer

Presents principles and practice of information communication between user and system. The course examines results of past research, as well as evolving trends in interface design and implementation. Prerequisite: CSCI 3333 or CMPE 3333 or consent of instructor. Equivalent course: CMPE 4381. A student may receive credit in only one course.

CSCI 4382 Computer Visualization [3-0]

fall, spring, summer

Focuses on design and implementation of computer graphics systems to provide visual representation of large data sets. Presents current theory and practice of computer visualization systems and advanced display techniques. Prerequisite: CSCI 3333 or CMPE 3333 or consent of the instructor.

CSCI 4390 Senior Project [3-0]

fall, spring, summer

Students will construct a software product, following it through the stages from initial specification to the final completed project, including user manual. Prerequisites: CSCI 3340 or CMPE 3340 and consent of instructor.

## Dance

DANC 1351 Introduction to Dance [3-0]  
fall

Introduction to dance as a profession; with activities that prepare the student for dance major course work with an emphasis on dance conditioning/somatic practices.

DANC 2101 Dance Improvisation [0-3]

spring, even years

Exploration of dance elements and design through creative problem solving and guided experiences. Must be registered concurrently in any DANC modern dance technique class.

DANC 2110 Tap Dance I [0-3]

Introduction to tap dance technique and styles. Prerequisite: Permission of instructor.

DANC 2112 Dance Performance: Beginning/Intermediate [0-3]

Introduction to dance performance participation and techniques. Must be registered concurrently in any dance technique course. Prerequisite: Permission of instructor. May be repeated for credit.

DANC 2120 Jazz Dance I [0-3]

Introduction to jazz dance technique and styles. Prerequisite: Permission of instructor.

DANC 2130 Dance Technique: Special Topics I [0-3]

Intensive study in dance technique; study with guest artists. Prerequisite: Permission of instructor. May be repeated for credit as topics change.

DANC 2144 Ballet Technique: Pointe I [0-3]

Instruction in Pointe technique. Prerequisite: Grade of B+ or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit.

DANC 2203 Music for Dancers [3-0]

Introduction to musical elements as they relate to dance technique, performance and instruction. Musical forms, historical periods and composers.

DANC 2241 Ballet I: Primary [0-4.5]

Study of fundamentals of ballet technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.

DANC 2242 Ballet I: Secondary [0-3]

Study of fundamentals of ballet technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.

DANC 2245 Modern Dance I Primary [0-4.5]

Study of fundamentals of modern dance technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.

- DANC 2246 Modern Dance I: Secondary [0-3]  
Study of fundamentals of modern technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.
- DANC 2249 Folklorico I Primary [0-4.5]  
Study of fundamentals of Folklorico dance technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.
- DANC 2250 Folklorico I Secondary [0-3]  
Study of fundamentals of Folklorico dance technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit.
- DANC 2253 Flamenco I Primary [0-4.5]  
Study of fundamentals of Flamenco dance technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment of DANC 1351. May be repeated for credit.
- DANC 2254 Flamenco I Secondary [0-3]  
Study of fundamentals of Flamenco dance technique. Prerequisite: Permission of instructor and credit for or concurrent enrollment of DANC 1351. May be repeated for credit.
- DANC 2323 Dance Appreciation [3-0]  
as scheduled  
An introduction to theatrical dance, including ballet, modern dance, post-modern dance and Spanish dance. How to understand and enjoy dance, an appreciation and understanding of Western dance performance forms. (Fulfills University core curriculum requirements for Fine Arts; see pages 103-107 for details.)
- DANC 3110 Tap Dance II [0-3]  
Continuation of DANC 2110. Prerequisite: Grade of ìBî or better in DANC 2110 or permission of instructor. May be repeated for credit.
- DANC 3112 Dance Performance: Intermediate/Advanced [0-3]  
Intermediate/advanced dance performance techniques. Must be registered concurrently in any dance technique course. Prerequisite: Permission of instructor. May be repeated for credit.
- DANC 3120 Jazz Dance II [0-3]  
Continuation of DANC 2120. Prerequisite: Grade of ìBî or better in DANC 2120 or permission of instructor. May be repeated for credit.
- DANC 3130 Dance Technique: Special Topics II [0-3]  
Intensive study in advanced dance technique; study with guest artists. Prerequisite: Permission of instructor. May be repeated for credit as topics change.
- DANC 3143 Ballet Technique: Variations [0-3]  
Focus on ballet repertory, including classical variations and contemporary styles and dance works. Prerequisite: Grade of ìBî or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit as repertory changes.
- DANC 3144 Ballet Technique: Pointe II [0-3]  
Instruction in advanced Pointe technique. Prerequisite: Grade of ìBî or better in DANC 2144 or permission of instructor. May be repeated for credit.
- DANC 3202 Choreography I [0-3]  
Investigation of compositional structures, motif and motif development; space, dynamics and rhythm as choreographic tools in dance making, leading to production of original dance work for formal/informal presentation. Prerequisite: DANC 1201.
- DANC 3241 Ballet II [0-4.5]  
Continuing study of fundamentals of ballet technique. Prerequisite: Grade of ìBî or better in DANC 2241 or permission of instructor. May be repeated for credit.
- DANC 3242 Ballet II [0-3]  
Continuing study of fundamentals of ballet technique. Prerequisite: Grade of ìBî or better in DANC 2242 or permission of instructor. May be repeated for credit.
- DANC 3245 Modern Dance II [0-4.5]  
Continuing study of fundamentals of modern dance technique. Prerequisite: Grade of ìBî or better in DANC 2245 or permission of instructor. May be repeated for credit.
- DANC 3246 Modern Dance II [0-3]  
Continuing study of fundamentals of modern dance technique. Prerequisite: Grade of ìBî or better in DANC 2246 or permission of instructor. May be repeated for credit.
- DANC 3249 Folklorico II Primary [0-4.5]  
Continuing study of fundamentals of Folklorico dance technique. Prerequisite: Grade of ìBî or better in DANC 2249 or permission of instructor. May be repeated for credit.
- DANC 3250 Folklorico II Secondary [0-3]  
Continuing study of fundamentals of Folklorico dance technique. Prerequisite: Grade of ìBî or better in DANC 2250 or permission of instructor. May be repeated for credit.
- DANC 3253 Flamenco II Primary [0-4.5]  
Continuing study of fundamentals of Flamenco dance technique. Prerequisite: Grade of ìBî or better in DANC 2253 or permission of instructor. May be repeated for credit.

- DANC 3254 Flamenco II Secondary [0-3]  
Continuing study of Flamenco dance. Prerequisite: Grade of iBî or better in DANC 2254 or permission of instructor. May be repeated for credit.
- DANC 3308 Dance History [3-0]  
fall, odd years  
History of dance as an art form viewed in its cultural and societal contexts.
- DANC 3309 Dance History I [3-0]  
Introduction to history of dance as an art form; examination of the role of dance in early world cultures and the evolution of dance forms through the 1800s, viewed in their cultural and societal contexts.
- DANC 3310 Dance History II [3-0]  
Continuing study of evolution of dance forms viewed in their cultural and societal contexts from the 1800s to the present. Prerequisite: DANC 3309.
- DANC 3311 Dance Production [3-0]  
Theory and practice of technical production for dance, including lighting design, costume design and construction, set design, sound and props.
- DANC 3312 Dance Philosophy and Criticism [3-0]  
Orientation to historical and contemporary dance philosophies; critical analysis of choreography and dance performance. Prerequisite: DANC 3310.
- DANC 3313 World Dance [3-0]  
Inquiry into dance forms and cultural contexts in diverse world cultures. Prerequisite: DANC 3310.
- DANC 3320 Dance Science [3-0]  
Fundamentals of physiology, kinesiology, biomechanics, physical conditioning and injury prevention as they apply to dance techniques and training. Prerequisites: BIOL 2403 and BIOL 2404.
- DANC 4102 Senior Project [0-3]  
The production of senior choreographic work or research project for formal presentation. Prerequisites: Permission of instructor and DANC 4202.
- DANC 4202 Choreography II [0-3]  
Study of space use, group design and emotional content in dance-making, leading to the production of original dance work for formal/informal presentation. Prerequisite: DANC 3202.
- DANC 4241 Ballet III [0-4.5]  
Continuing study of ballet technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3241 or permission of instructor. May be repeated for credit.
- DANC 4242 Ballet III [0-3]  
Continuing study of ballet technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3242 or permission of instructor. May be repeated for credit.
- DANC 4245 Modern Dance III [0-4.5]  
Continuing study of modern dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3245 or permission of instructor. May be repeated for credit.
- DANC 4246 Modern Dance III: [0-3]  
Continuing study of modern dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3246 or permission of instructor. May be repeated for credit.
- DANC 4249 Folklorico III Primary [0-4.5]  
Continuing study of Folkloric dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3249 or permission of instructor. May be repeated for credit.
- DANC 4250 Folklorico III Secondary [0-3]  
Continuing study of Folkloric dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3250 or permission of instructor. May be repeated for credit.
- DANC 4253 Flamenco III Primary [0-4.5]  
Continuing study of Flamenco dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3253 or permission of instructor. May be repeated for credit.
- DANC 4254 Flamenco III Secondary [0-3]  
Continuing study of Flamenco dance technique with a strong emphasis on performing skills and styles. Prerequisite: Grade of iBî or better in DANC 3253 or permission of instructor. May be repeated for credit.
- DANC 4309 Dance Pedagogy [3-0]  
spring, even years  
Technical and aesthetic theories and practices related to the training of dancers. Prerequisite: Grade of B or better in DANC 3241 and DANC 3245.
- DANC 4310 Dance Theory: Ballet, Modern, Jazz [3-0]  
Technical and aesthetic theories and practices related to the training of dancers in ballet, jazz dance and modern dance idioms. Prerequisite: Credit for any 3000 level technique class.
- DANC 4311 Dance Theory: Folk [3-0]  
Exploration of theories and practice in folk dances as they relate to diverse world cultures. Prerequisite: Credit for any 3000-level technique class.
- DANC 4312 Dance Theory: Children's Dance [3-0]  
Technical and aesthetic theories and practices related to fashioning developmentally appropriate dance experiences for

children. Prerequisite: Credit for any 3000-level technique class.

DANC 4313 Dance in the Public Schools [3-0]  
Field-based experiences in program planning for dance in secondary schools, including unit instruction, lesson planning, class organization and materials sources. Laboratory experiences to be arranged. Prerequisites: DANC 4310 or DANC 4311 or DANC 4312; EDCI 4301 and EDHS 3305.

## Dietetics

DIET 2351 Introduction to Clinical Nutrition [3-0]  
fall, spring, summer I  
Basic principles of human nutrition with emphasis on the nutrients and factors that affect their utilization in the human body; nutritional requirements of the body at all age levels; modern concept of an adequate diet; cultural influences on food selection; principles of diet modification and its importance in the prevention and treatment of disease.

DIET 2352 Food Preparation [2-3]  
spring  
Application of scientific principles in food selection and preparation (conventional and microwave cooking). Consideration is given to the composition and properties of food, nutritional value, desirability standards, simple menu service and food economics.

DIET 3252 Quantity Foods Production [2-0]  
fall  
Principles and methods of buying, preparing and serving foods for various types of quantity food facilities are considered. Standardization of recipes and cost controls. Use and care of institutional equipment. Safety and sanitation. 2 hours of lecture/discussion per week. Requires concurrent enrollment in DIET 3253, DIET 3353, and DIET 3356. Prerequisites: Diet 2352 and admission to the Coordinated Program in Dietetics.

DIET 3253 Quantity Foods Practicum [6-0]  
fall  
Students will be assigned to a practicum site in order to develop skills related to the principles and methods of buying, preparing and serving foods for various types of quantity food facilities are considered. Standardization of recipes and cost controls. Use and care of institutional equipment. Safety and sanitation. 6 hours of practicum per week. Concurrent enrollment in DIET 3252, DIET 3353, and DIET 3356. Prerequisites: DIET 2352 and admission to the Coordinated Program in Dietetics.

DIET 3353 Advanced Nutrition [3-0]  
fall  
Study of biological, physiological, sociological and environmental aspects of nutrition science. Controversial issues in nutrition are examined. Prerequisites: CHEM 3303 and CHEM 3103, HRP 2351, BIOL 2403, BIOL 2404 and

admission to the Coordinated Program in Dietetics.

DIET 3354 Food Systems Management [3-0]  
spring  
Organization and management of a food service system and basic operational subsystems (procurement, inventory, production, distribution, sanitation and fiscal control). Prerequisites: DIET 3452, DIET 3353 and DIET 3356.

DIET 3356 Experimental Foods [2-3]  
fall  
Investigation of chemical, physical and nutritional properties of foods and additives during food preparation. Study of food modifications necessary for diet therapy; consideration of cultural preferences. Prerequisites: DIET 2352, CHEM 2302 and admission to the Coordinated Program in Dietetics.

DIET 3357 Medical Nutrition Therapy I [3-0]  
fall  
Introduction to the concepts of providing nutritional care to individuals. Topics include nutritional assessment procedures (anthropometrics, biochemical, clinical and dietary) nutrition care plan, medical records including problem-oriented medical record, basic principles of interviewing and counseling, diabetic and renal calculations, total parenteral nutrition (TPN) and tube feeding methods, and use of computers for dietary analysis of intakes. Prerequisites: DIET 3353 and admission to the Coordinated Program in Dietetics.

DIET 3358 Medical Nutrition Therapy II [3-0]  
spring  
Pathophysiological effect of disease on humans and rationale for diet therapy. Development of ability to translate dietary prescription into meal plans that will satisfy nutritional, emotional and cultural needs of people. Prerequisite: DIET 3357.

DIET 3655 Food Systems Management Practicum [0-18]  
spring  
Selected problems and clinical experiences directly correlated to DIET 3354. Sixteen hours clinical experience per week. Prerequisites: DIET 3452, DIET 3353 and DIET 3356, each with a minimum grade of C and concurrent enrollment in DIET 3354.

DIET 4157 Seminar in Dietetics [1-0]  
spring  
Review and discussion of all topics related to National Registration Examination for Dietitians including Food Service, Clinical, and community Nutrition. Extensive exam preparation for the National Registration Examination will be emphasized. Prerequisites: DIET 4359, DIET 4752 and admission to the Coordinated Program in Dietetics.

DIET 4252 Integrative Seminar in Dietetics [2-0]  
fall  
Integration of theory and practice on the basis of practicum experience and nutrition care process and model. Two

lecture/discussion hours a week for one semester.

Prerequisites: DIET 3357, DIET 3358 and admission to the Coordinated Program in Dietetics.

DIET 4257 Research Methods in Dietetics [2-0]

spring

The study of principles of research and research design. Introduction, interpretation and evaluation of dietetics-related professional literature. Study of planning techniques and instructional strategies for professional presentations. Students are provided preliminary directions in the development of a research proposal. Prerequisite: Senior status in dietetics program. DIET 4359, DIET 4752 and admission to the Coordinated Program in Dietetics

DIET 4258 Communication Skills in Dietetics [2-0]  
fall

The study of the major components of communication, interviewing, counseling, behavior modification, group process, delivery of oral presentations and workshops, learning and motivation.

DIET 4356 General Dietetics Practicum [9-0]  
spring

Integration of nutritional care and dietetic service into various systems of health care, food systems management or clinical nutrition. Under close supervision, students will assume the role of the generalist dietitian. Students will be assigned to a practicum experience for 9 hours per week. Prerequisites: DIET 4359, DIET 4752 and admission to the Coordinated Program in Dietetics.

DIET 4359 Community and Life Cycle Nutrition [3-0]  
fall

The study of community assessment, planning, education and implementation of community programs. Also includes the study of physiological changes and nutritional requirements in infancy, childhood, adolescence and adulthood, including the elderly.

DIET 4455 Community Nutrition Practicum [0-0-12]

spring

Survey of major problems arising from food habits of population groups, including the study of the Mexican-American culture. Techniques for teaching effective nutrition to groups. Clinical experience includes observation and participation with selected community agencies and schools. Sixteen hours clinical experience per week for 11 weeks. Prerequisites: DIET 4852 and concurrent enrollment in DIET 4259.

DIET 4752 Clinical Nutrition Practicum [0-0-21]  
fall

An introduction to the role of the clinical dietitian in the health care environment. Selected problems and clinical experiences directly correlated to DIET 3357 and DIET 3358. 21 hours clinical experience per week. Prerequisites: DIET 335, DIET 3358 and admission to the Coordinated

Program in Dietetics.  
PREPARE ▲ DISCOVER ▲ TRANSFORM ▲

## Economics

ECON 1301 Introduction to Economics [3-0]  
fall, spring, summer

Uses economic analysis to examine a variety of past and current economic, social and political issues/problems. While the focus will be on the United States, international issues will also be considered. In particular, the student will have the opportunity to develop an understanding of how economic, social and political systems, through their institutions and structures, affect a variety of issues related to the economy and society.

ECON 2301 Principles of Macroeconomics [3-0]  
(Texas Common Course Number is ECON 2301.)  
fall, spring, summer

Provides an introduction to the economy as a whole. Topics include national income and output, unemployment, inflation, market forces and economic growth, international linkages (such as trade deficits), and economic, social and political structures and institutions (such as fiscal and monetary policies and the Federal Reserve System).

ECON 2302 Principles of Microeconomics [3-0]  
(Texas Common Course Number is ECON 2302.)  
fall, spring, summer

Introduction to the economic problem and the fundamentals of microeconomics. Analysis of the market system (including market failure), consumer demand, the firm's supply decision, product and resource markets, resource allocation and efficiency and international linkages (such as comparative advantage). Prerequisite: ECON 2301 with a grade of C or better.

ECON 3300 Internship in Economics [0-0-3]  
as scheduled

This internship is designed to give students an opportunity to gain real world experience in their chosen economics career field by working with a participating employer or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must include at least 10 hours of work each week over the period of one academic term. Prerequisites: ECON 2301, ECON 2302, upper-division standing and approval by both department chair and employer providing internship experience.

ECON 3336 The Political Economy of Mexico [3-0]  
as scheduled

This course surveys the growth of the Mexican economy, its institutions and problems. Emphasis is placed on the relative roles of government and private enterprise in the

development process. Prerequisites: ECON 2301 and ECON 2302, or equivalents.

ECON 3341 Econometrics [3-0]

This course studies standard regression procedures of parameter estimation and hypothesis testing in economics. This course covers basic probability concepts, the linear regression model, the properties of the least squares estimators, hypothesis testing, functional form, heteroskedasticity, autocorrelation and the basics of panel data estimation and simultaneous equation. Prerequisites: ECON 2301, ECON 2302, and MATH 1322 or QUMT 2340.

ECON 3342 Business and Economics Forecasting [3-0]

This course studies forecasting techniques as they apply to finance and economics. The course covers graphical analysis, modeling and forecasting trends, seasonality adjustment, stationarity, MA, AR, ARMA, ARIMA, unit roots, forecasting with regression models and forecast evaluation. Prerequisites: ECON 2301, ECON 2302, and MATH 1322 or QUMT 2340.

ECON 3343 Economics of the Government Sector [3-0]

as scheduled  
Economic roles of the government, public sector economic decision making, and the effects of government expenditures and taxation on resource allocation, income distribution and economic growth. Also includes topics such as pollution control, education, deregulation and income security programs. Prerequisites: ECON 2301 and ECON 2302 or equivalents.

ECON 3351 Macroeconomic Theory [3-0]

fall, spring  
Provides an analysis of the construction, character and operational uses of the macroeconomic models of classical, Keynesian, Monetarist and Neoclassical schools of thought. Applications of the foregoing models to such issues as inflation, unemployment, economic growth, interest rates and investment in the U.S. economy are emphasized. Prerequisites: ECON 2301 and ECON 2302.

ECON 3352 Microeconomic Theory [3-0]

fall, spring  
Provides an in-depth study of the theory of consumer demand and the theory of the firm. Supply and demand analysis and different market structures are also discussed. Prerequisites: ECON 2301 and ECON 2302.

ECON 3353 International Trade [3-0]

fall, spring  
Provides an analysis of the mechanism of international trade and its effects on the domestic economy. Emphasis is placed on the issues of comparative advantage, trade barriers, international factor mobility (including foreign direct investment) and trade agreements. Prerequisites: ECON 2301 and ECON 2302.

ECON 3354 Health Economics [3-0]

as scheduled

This course examines the economics of health and health care, the production of health services, the markets for hospital and physician services and the health insurance market. Other major topics include managed care, the pharmaceutical industry, the role of government in the health care sector and health care reform. Prerequisite: ECON 1301 or ECON 2302 or equivalents.

ECON 3355 Economic Development [3-0]

as scheduled  
This course is designed to provide students with contemporary concepts, analytical approaches, policies and practices that foster the technology-based economic development of regional and local economies. The course provides evidence on how factors such as knowledge, place, time, capital, institutional relationships, learning and policy promote technology-based economic development. Worldwide and regional comparative perspectives and alternative strategies are also examined in the course. Prerequisites: Three hours of economics and junior standing.

ECON 3357 Economics of Poverty [3-0]

fall  
Provides an analysis of the causes and socioeconomic consequences of poverty. Discussions will involve such topics as income transfer programs, welfare reform, Social Security, national health programs and income tax structures. Prerequisites: ECON 2301 and ECON 2302.

ECON 3358 Labor Economics [3-0]

fall  
Provides an in-depth analysis of labor market structures and processes, patterns and determinants of employment and wages, labor force participation, unemployment, discrimination and human capital. Prerequisites: ECON 2301 and ECON 2302.

ECON 3360 Managerial Economics [3-0]

as scheduled  
This course applies economic reasoning to entrepreneurial decision making. The course covers topics such as personnel economics, production theory, pricing policies and investment planning. Prerequisites: ECON 2301 and ECON 2302 or equivalents.

ECON 3381 Money and Banking [3-0]

fall, spring, summer  
The components, nature, functions, creation and destruction of money and credit are surveyed in this course. Other topics include financial institutions and their functions and an introduction to monetary theory and policy. Prerequisites: ECON 2301 and ECON 2302 or equivalents.

ECON 4340 Introduction to Mathematical Economics [3-0]

spring  
Introduction to quantitative methods used to analyze a variety of macroeconomic and microeconomic issues, including the role of fiscal and monetary policies in



the macroeconomy, markets, production costs, profit maximization and utility maximization. Methods discussed include the use of structural models, matrix algebra, comparative statics and unconstrained and constrained optimization. Prerequisites: ECON 2301, ECON 2302 and MATH 1342 (or equivalent).

ECON 4359 History of Economic Thought [3-0]  
spring  
Provides a survey of the field of economics. Pre-scientific, classical and contemporary works will be studied to offer knowledge of the development of economic theory and view of current direction and scope. Prerequisites: ECON 2301 and ECON 2302.

ECON 4361 Studies in Economics [3-0]  
fall, spring  
Provides an in-depth analysis of a special economics topic selected by the instructor. The topic will be established a priori, such that interested students should contact the instructor or department chair before registration. This course will have variable content and may be repeated for credit with consent of instructor. Prerequisites: ECON 2301 and ECON 2302.

## Education

ED 3350 Information Technology [3-0]  
fall, spring, summer  
Operational skills in computer applications to educational word processing, database, worksheet, desktop publishing, testing, graphics and communication. Emphasis will be given to a critical review of methodology for instruction and management of instruction. Prerequisite: CSCI 1300 or consent of instructor.

ED 4313 Directed Teaching Generic Special Education [3-0]  
fall, spring  
Course consists of observation, limited participation in teaching, then full teaching responsibility in a public school (TEA-accredited) special education classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom for a minimum number of hours as mandated by TEA. The number of hours per day and the number of days per week are regulated by TEA, UTPA Student Teaching Manual and local school districts. Prerequisites: Approval of UTPA Teacher Education Committee. For additional prerequisites, refer to Directed Student Teaching Requirements for Generic Special Education.

## Alternative Certification Program

EDAC 4320 Internship [3-0-30]  
as scheduled  
Will consist of on-site supervision. Seminars will meet weekly during the semester and for a minimum of 12 hours. This course is required to meet elementary and secondary requirements for teacher certification. May not be substituted for student teaching. Prerequisites: Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

EDAC 4321 Internship [3-0-30]  
as scheduled  
Will consist of on-site supervision. Seminars will meet weekly during the semester and for a minimum of 12 hours. This course is required to meet elementary and secondary requirements for teacher certification. May not be substituted for student teaching. Prerequisites: Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

EDAC 4340 Introduction to the Teaching Profession [3-0-4]  
fall, spring, summer  
This course, designed for both elementary and secondary Alternative Certification candidates, will orient students to the teaching profession, the lesson cycle, the teaching process and real-life requirements of teaching in a modern public school. Following instruction in observation skills, students will spend 45 clock hours, including three full consecutive days, in a public school setting where they will have the opportunity to prepare lessons and teach them in small and large group settings. ACP students will be evaluated in both the University and public school setting.

EDAC 4342 Introduction to Early Childhood Education [3-0]  
as scheduled  
Teachers of young children (birth to age eight) must understand how children develop socially, emotionally, physically and cognitively so that they can plan developmentally appropriate experiences for each child. The major purpose of this course is to present current theories, knowledge and research about children that underlie decision making in early childhood programs. A second purpose is to illustrate how theories and research findings evolve into curriculum organization, teaching strategies and activities that are developmentally appropriate for young children.

EDAC 4343 The Process of Reading [3-0]  
as scheduled  
The reading process and its correlates as they pertain to emergent literacy through the acquisition of comprehension processes; focus on the directed reading process for grades Pre-K through four; connections among the processes of

language, writing and reading; basic diagnosis techniques and assessment procedures as they relate to the reading/writing process.

EDAC 4345 Theory and Methodology  
of Instruction Planning in  
the Elementary Schools [3-0]

as scheduled

This course will present principles of curriculum organization and planning based on learner needs. Students will design instruction to enable elementary students to achieve educational goals and objectives. Implementation of the lesson cycle with utilization of instructional media will be stressed. The scope, sequence and materials for teaching the elementary school curriculum will be studied. The course will include basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the elementary learner will be included.

EDAC 4348 Instructional Planning Methodology  
and Classroom Management  
in the Secondary Schools [3-0]

as scheduled

This course focuses on the practical application of Texas curriculum requirements incorporating the lesson cycle for planning, implementing and evaluating the teaching-learning process in secondary schools within legal and ethical guidelines. It includes basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the secondary learner will be included.

EDAC 4620 Internship  
4621 [6-0-30]

as scheduled

Internship will consist of on-site supervision. Seminars will meet weekly during the fall semester and for a minimum of 12 hours during the spring semester. Courses are designed to meet elementary or secondary requirements for teacher certification. May not be substituted for student teaching. Prerequisites: Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

# Kinesiology Education

EDAK 3370 Internship I: Kinesiology in  
Elementary Schools [3-0]  
fall, spring  
Instruction and practice with methods and materials  
necessary to design and implement developmentally  
appropriate instruction for elementary school physical  
education. It is aligned with the EC-4 Texas Essential  
Knowledge and Skills (TEKS). This is a field-based course  
which requires a minimum of 25 hours in a field setting.  
Prerequisites: KIN 3340, kinesiology major and admission to  
teacher education.

EDAK 3380 Internship I: Kinesiology in  
Middle Schools [3-0]  
fall, spring  
Instruction and practice with methods and materials  
necessary to design and implement developmentally  
appropriate instruction for middle school physical education.  
It is aligned with the 4-8 Texas Essential Knowledge and  
Skills (TEKS). This is a field-based course which requires a  
minimum of 25 hours in a field setting. Prerequisites: KIN  
3340, kinesiology major and admission to teacher education.

EDAK 4390 Internship I: Kinesiology in  
High Schools [3-0]  
as scheduled  
Instruction and practice with methods and materials  
necessary to design and implement developmentally  
appropriate instruction for high school physical education  
students. It is aligned with the 8-12 Texas Essential  
Knowledge and Skills (TEKS). This is a field-based course  
which requires a minimum of 25 hours in a school setting.  
Prerequisites: KIN 3370 and 3380.

EDAK 4399 Supervised Internship II:  
All-Level in Kinesiology [3-0]  
fall, spring  
This course is designed for students in kinesiology seeking  
all-level certification. The intern will be placed in a state  
accredited public school all day under the guidance of an  
experienced classroom teacher (mentor) and a university  
supervisor for a minimum of twelve (12) weeks. This course  
must be taken concurrently with EDAL 4398.

## All-Level Education

EDAL 3301 Foundations of  
All-Level Education [3-0]  
as scheduled  
This course is designed for the student who is preparing

to teach in a specific content-area at all levels in public  
education. Research issues and trends regarding all-  
level education will be examined including the historical  
and philosophical systems affecting the current state of  
schools. The course will analyze the professional roles and  
responsibilities as well as the legal and ethical requirements of  
the teaching profession. This course requires a minimum of 25  
hours in the public school setting. Prerequisite: Admission to  
the College of Education.

EDAL 3302 Human Development, Learning  
Theory and Assessment [3-0]  
as scheduled  
This course examines the human developmental processes  
as they apply to planning instruction and assessment for  
learners at all levels. It also emphasizes the role of learning  
theory in the instructional process, including varied learning  
styles and developmental characteristics and needs. This  
course also focuses on the role of formal and informal  
assessment in guiding instructional planning and creating  
assessments congruent with instructional goals and outcomes  
at the EC-4 and 8-12 levels. This course requires a minimum  
of 25 hours in the public school setting. Prerequisite:  
Admission to the College of Education.

EDAL 3303 Instructional Methods for English  
Language Learners and Learners with  
Exceptionalities at All Levels [3-0]  
as scheduled  
Designed for the prospective all-level teacher, this course  
explores contemporary first and second language acquisition  
theories and theories of instruction as they relate to the  
special needs of English language learners (ELLs) and  
learners with exceptionalities in content-area classrooms  
for all level (EC-12) instruction. Students will have the  
opportunity to learn to assess the special needs of students  
whose first language is not English and students who have  
exceptionalities (i.e., mild learning disabilities). They will also  
learn to integrate research-based best practices for promoting  
literacy and language development in their teaching. This  
course requires a minimum of 25 hours in the public school  
setting. Prerequisite: Admission to the College of Education.

EDAL 4301 Internship I: Elementary (EC-4)  
Classroom Management, Planning  
and Curriculum [3-0]  
as scheduled  
This course is designed for the prospective all-level teacher  
emphasizing principles of curricular organization, planning  
and classroom management based on elementary school  
learner needs. Development of lessons and utilization of  
instructional media will be stressed. Students will also learn  
the scope, sequence and materials used in the elementary  
(EC-4) school curriculum. The course will also focus on the  
basic principles and procedures of instruction and classroom  
management. The development of appropriate goals,  
objectives and lesson plan for grades EC-4 is introduced. This  
course requires a minimum of 25 hours in the public school  
setting. Prerequisites: EDAL 3301, EDAL 3302 and EDAL  
3303.

EDAL 4302 Internship I: Principles of Learning and Classroom Management  
Grades 4-8 [3-0]

as scheduled

This course is designed for the prospective all-level teacher and addresses the intellectual, physical, social, emotional and moral implications for teaching, learning and school curricular organization at the middle school level. It also focuses on the interdisciplinary nature of knowledge, including how the middle school curriculum should be relevant, challenging, integrative and exploratory. The development of appropriate goals, objectives and lesson plans for middle school is introduced. This course requires a minimum of 25 hours in the public school setting. Prerequisites: EDAL 3301, EDAL 3302 and EDAL 3303.

EDAL 4303 Internship I: Planning and Curriculum Development for  
Grades 8-12 [3-0]

as scheduled

This course is designed for students preparing to teach at all levels. It focuses on methods that emphasize curriculum, classroom organization and management. The development of appropriate goals, objectives and lesson planning for grades 8-12 will be introduced. The prospective teacher will have the opportunity to identify needs and plan instruction using technology and other resources. A particular emphasis will be for students to demonstrate lessons in respective content areas utilizing appropriate instructional techniques. This course requires a minimum of 25 hours in the public school setting. Prerequisites: EDAL 3301, EDAL 3302 and EDAL 3303.

EDAL 4395 Supervised Internship II:  
All-Level in Art [3-0]

as scheduled

This course is designed for students in art seeking all-level teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDAL 4398.

EDAL 4396 Supervised Internship II:  
All-Level in Music [3-0]

as scheduled

This course is designed for students in music seeking all-level teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDAL 4398.

EDAL 4397 Supervised Internship II:  
All-Level in Special Education [3-0]

as scheduled

This course is designed for students in special education seeking all-level teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of

an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDAL 4398.

EDAL 4398 Integrated Internship II:  
Seminar All-Level [3-0]

as scheduled

A seminar format facilitates the intern's integration of the supervised internship experience and the program's professional curriculum for kinesiology, art, music and special education all-level teacher certification. Emphasis is placed on linking classroom learning with practice in the field and integrating theory with professional practice. Internship situations and experiences will be used for discussion and analysis. This course must be taken concurrently with EDAL 4399.

EDAL 4399 Supervised Internship II:  
All-Level in Kinesiology [3-0]

as scheduled

This course is designed for students in kinesiology seeking all-level teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDAL 4398.

## Bilingual Education

EDBE 3315 The Bilingual Curriculum  
in the Content Areas [3-0-2]

fall, spring (and summer for endorsement only)

This is a course in which the learner-centered curriculum for the content area will be studied, focusing on the Texas Essential Knowledge and Skills (TEKS) of science, mathematics, social studies and health in a dual language classroom. (Field-Based Approved Course.)

EDBE 3316 The Development of Bilingual Literacy [3-0-2]

fall, spring (and summer for endorsement only)

This course will examine the transfer of Spanish literacy to English literacy. The course will also emphasize the current perspective of the social nature of the bilingual process in order to provide relevant and meaningful learning experiences for all learners. (Field-Based Approved Course.)

EDBE 3322 Foundations of  
Bilingual Education [3-0-11/2]

fall, spring, summer

The study of cultural, psychological, socioeconomic, linguistic, cognitive and curricular factors affecting the academic achievement of bilingual students. This course also will investigate the philosophical, legal and sociological aspects of bilingual education in the American public school system. National, state and local guidelines designed to meet the needs of multilingual and multicultural student

populations will be reviewed.

EDBE 3324 English as a Second Language [3-0-2]  
fall, spring, summer

The rationale, theories, goals and practical applications of a comprehensive learner-centered ESL curriculum will be studied. The integration of a learner-centered ESL curriculum in biliteracy development will also be examined as an integral component of a bilingual education program.

EDBE 4304 The Development of Bilingualism [3-0-2]

fall, spring (and summer for endorsement only)  
This course is designed to investigate the nature of dual language development in a bilingual setting, beginning with early childhood through the sixth grade. Special emphasis is placed on first and second language development and transference of skills and concepts resulting in balanced bilingualism. (Field-Based Approved Course.)

## Curriculum and Instruction

EDCI 1301 Introduction to the Teaching Profession [3-0]  
as scheduled

This course, designed for elementary, middle school and secondary candidates, will orient students to the teaching profession, the teaching process and real-life requirements of teaching in a modern public school. Students will spend 45 clock hours, including three full consecutive days, in a public school setting where they will have the opportunity to prepare lessons and teach them in small and large group settings. Students will be evaluated in both the university and public school setting. This course will also address college success skills needed by entering freshman.

EDCI 3301 Principles of Learning [3-0]  
as scheduled

This course provides an introduction to the behavioral, cognitive, social and constructivist concepts of learning at the elementary school level. The course will examine the principles and theories of classroom management, organization, motivation, behavior modification, emotional, intellectual, physical and social implications related to the education of young children. This course requires a minimum of 25 hours in the public school setting.

EDCI 3305 Social, Cultural, Historical and Political Foundations of Education [3-0]

fall, spring  
This course is designed for the student who is preparing to teach in grades EC-4. The course focuses on the social, cultural, historical and political issues impacting the current

state of education in the United States. Research, issues and trends in these areas with regard to early childhood through fourth grade (EC-4) education will be discussed. This is a field-based approved course.

EDCI 3330 Foundations of Education and Teaching as a Profession [3-0]

fall, spring, summer  
This course examines the philosophical, historical, legal, political, including accountability and assessment, and social/cultural aspects of education in the United States and its effect on culturally and linguistically-diverse populations including students with exceptionalities. It explores how schools and classrooms function as academic organizations and how the school structure affects the general community and can open the lines of communication with students' families. It also discusses legal and ethical issues related to the teaching profession. Teacher preparation, selecting teaching as a profession, teachers' professional expectations, teacher certification and effective teaching will be explored.

EDCI 3331 Child Development and Teaching in the Elementary School [3-0]

fall, spring, summer  
This course focuses on applications of child development from birth to preadolescence in children from culturally and linguistically-diverse populations including students with exceptionalities to designing instruction. Learning, intelligence and motivation as they apply to the development of teaching-knowledge in learner centered environments will be discussed. This course explores the relationship between teaching, learning and development and factors, such as an understanding of development as occurring within multiple contexts, including children's social relationships (peer, family, and teacher relationships), and how children develop with respect to their identities as learners. Students will be exposed to self-analysis (reflective teaching) skills that can improve teaching/learning behaviors.

EDCI 3332 Learning, Motivation and Technology Integration in Elementary School [3-0]

fall, spring, summer  
This field-based course introduces students to the types and uses of educational technology to support and enhance the K-6 learning experience. It addresses learning theory and the integration of technology into the curriculum, as well as theories of motivation in order to actively engage students in the learning process. Participants will gain practical experience designing various types of technology-based instructional materials based on particular theoretical frameworks. In addition, students will be required to articulate the learning and/or motivational theory underlying created artifacts as part of the design process. State academic standards and state/national technology standards will be used to make decisions about curriculum content and to plan technology-based activities.  
Prerequisite: Admission to the College of Education EC-6 Teacher Preparation Program,

- EDCI 3333 Principles of Curriculum, Management and Assessment in the Elementary School [3-0]  
fall, spring, summer  
This field-based course examines the design, implementation, communication, management and evaluation of curricula, including the use of learner-centered environments. The focus will be on assessment, procedures for setting up a classroom climate conducive to learning, practices for managing student behavior, conflict resolution, and classroom management models and strategies appropriate for culturally and linguistically diverse populations, including students with exceptionalities.  
Prerequisite: Admission to the College of Education EC-6 Teacher Preparation Program.
- EDCI 3334 Teaching Language Arts and Social Studies in the Elementary School [3-0]  
fall, spring, summer  
This field-based course focuses on the current research and practice of teaching and assessment of language arts and social studies in the elementary school curriculum for culturally and linguistically-diverse populations, including student with exceptionalities. The use of several pedagogical approaches (direct, indirect, and cooperative) in conjunction with lesson planning and questioning techniques will be discussed within the context of these content areas. Additionally, students will be provided with learning opportunities to facilitate their conceptual understanding of the language arts and social studies curricula, especially within the context of the state mandated curriculum and its connections to Texas' statewide accountability system.  
Prerequisite: Admission to the College of Education EC-6 Teacher Preparation Program.
- EDCI 3335 Teaching Science and Mathematics in the Elementary School [3-0]  
fall, spring, summer  
This field-based course focuses on the current research and practice of teaching and assessment of science and mathematics in the elementary school curriculum for culturally and linguistically-diverse populations, including students with exceptionalities. The use of several pedagogical approaches (direct, indirect, and cooperative) in conjunction with lesson planning and questioning techniques will be discussed within the context of these content areas. Additionally, students will be provided with learning opportunities to facilitate their conceptual understanding of the language arts and social studies curricula, especially within the context of the state mandated curriculum and its connections to Texas' statewide accountability system.  
Prerequisite: Admission to the College of Education EC-6 Teacher Preparation Program.
- EDCI 4302 Educational Psychology [3-0-11/2]  
fall, spring, summer  
In this course, the prospective teacher will examine the development of children, with emphasis on the development of students in middle and secondary school. The importance of understanding and demonstrating how to work with diverse groups of learners will be stressed (e.g., SES, exceptionalities, race, ethnicity, gender equity, language), and students will be involved in field-based experiences in the schools and/or the community. The importance of the interrelationship between students, educators, parents and the community will be stressed.
- EDCI 4305 Instructional Technology and Curriculum Development [3-0-1]  
fall, spring  
This course will present principles of curriculum organization, planning and technology applications that provide relevant and meaningful learning experiences for all students. The infusion of instructional technology across content areas will be emphasized.
- EDCI 4306 Instructional Methods and Classroom Management [3-0-2]  
fall, spring  
This course focuses on instructional methods that emphasize practical applications of a learner-centered curriculum and classroom organization and management. Teaching strategies for delivering learner-centered instruction will be stressed. (Field-Based Approved Course.)
- EDCI 4310 Directed Teaching ó ESL: Internship II [3-0-15]  
fall, spring  
(Student must also be enrolled in EDCI 4311-elementary or EDCI 4398-secondary.)  
This course must be taken by all undergraduate student teachers working toward an English as a Second Language endorsement for teaching in ESL programs. Course requires observation and teaching experiences in a public school ESL classroom for one-half day, Monday through Friday, for half a semester. This work is done under the direction of a fully certified teacher of the class to which the student is assigned. Periodic observations and evaluations will be done by the course instructor. Weekly seminars and individual conferences are a required part of the course. Prerequisite: Approval by the UT Pan American Teacher Education Committee. Elementary prerequisites: EDCI 3305 and EDCI 4306. High school prerequisites: EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308 and READ 4351.
- EDCI 4316 Principles of Teaching Workshop for Elementary/Secondary Teachers Advanced [3-0]  
as scheduled  
A workshop course designed for the person entering the teaching profession to study classroom management and to give the student the opportunity to develop instructional skills needed in the area of the instructional assignment. Prerequisite: Special permission must be given to each participant before enrollment in the course.
- EDCI 4390 Development and Learning [3-0]  
as scheduled  
This course focuses on the cognitive and affective development of children in early childhood through fourth grade (EC-4) education. The emphasis of this

course is on using research and trends on the cognitive and emotional development of children to establish a positive and challenging learning environment. The course will also provide a better understanding of the different factors that impact the teaching and learning process. This course requires a minimum of 25 hours in the public school setting.

EDCI 4398 Integrated Internship II Seminar-Elementary (EC-4) [3-0]

fall, spring

A seminar format facilitates the intern's integration of the supervised internship experience and the program's professional curriculum for elementary (EC-4) teacher certification. Emphasis is placed on linking classroom learning with practice in the field and integrating theory with professional practice. Internship situations and experiences will be used for discussion and analysis. This course must be taken concurrently with EDCI 4399.

EDCI 4399 Supervised Internship II EC-4 [3-0]

fall, spring

This course is designed for students seeking elementary (EC-4) teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDCI 4398.

## Early Childhood

EDEC 4314 Research in Early Childhood [3-0-11/2]

fall, spring

Students will research and survey current trends in early childhood programs including day care. Theories of classroom management and supervision of children will be emphasized. Prerequisites: EDEC 4390 and EDEC 4391.

EDEC 4391 Foundations of Early Childhood [3-0-11/2]

fall, spring, summer

This course will address child development during early childhood as it impacts formal learning settings. A learner-centered curriculum which includes learning centers, thematic instruction, and authentic assessment in a field-based setting will be emphasized. (Field-Based Approved Course.) Prerequisite: EDEC 4390.

EDEC 4392 Acquisition and Conceptualization Processes in Early Childhood [3-0-2]

fall, spring (and summer for endorsement only)

Analysis of processes of acquisition and conceptualization of Piagetian concepts, socialization, wellness and fitness. (Field-Based Approved Course.) Prerequisite: EDEC 4390.

EDEC 4393 Cultural Dimensions Related to Early Childhood [3-0-2]

fall, spring (and summer for endorsement only)

Multicultural, pluralistic societies will be reviewed with emphasis on major components of culture. The culture of Hispanics and other minorities will be an integral part of this course. Dynamics of socioeconomic status, stereotyping, family structure, language acquisition and health/nutrition will be researched.

EDEC 4394 Cognitive and Psychomotor Development in Early Childhood [3-0-2]

fall, spring (and summer for endorsement only)

Theories and stages of cognitive and psychomotor development will be analyzed. Developmental program models will be studied. Readiness for first language learning and second language acquisition will be addressed. (Field-Based Approved Course.)

## High School 8-12

EDHS 3305 Instructional Methods for English Language Learners and Learners with Exceptionalities in High School [3-0]

as scheduled

Designed for prospective high school teachers, this field-based course explores contemporary first and second language acquisition theories and theories of instruction as they relate to the special needs of English language learners (ELLs) and learners with exceptionalities in content-area classrooms in high schools. Students will have the opportunity to learn to assess the special needs of students whose first language is not English and students who have exceptionalities (i.e., mild learning disabilities). They will also have the opportunity to learn to integrate research-based best practices for promoting literacy and language development in their teaching.

EDHS 4301 Foundations of Education [3-0]

as scheduled

This course is designed for the student who is preparing to teach in high school (8-12 level). Students will investigate the teaching profession as it relates to social, political and economic forces in a global society. The historical and philosophical systems that have influenced contemporary schools will be studied. Research, issues and trends in these areas will be examined through both classroom instruction and field-based experiences in high schools. Ethics and personal integrity will be examined within the context of ethical and legal standards for teachers. Instructional use of technology is emphasized. This course requires a minimum of 25 hours in the public school setting.

EDHS 4302 Instructional Planning and Assessment [3-0]

as scheduled

This course is designed for students who are preparing to teach

in high school (8-12 level). It addresses human developmental processes, learning theories and factors that impact student learning to support the framework for planning and assessing instruction that motivates students and is responsive to their developmental characteristics and needs. The course focuses on procedures for designing appropriate, coherent and effective instruction and assessment based on appropriate learning goals and objectives, including the use and integration of technology. This course requires a minimum of 25 hours in the public school setting.

EDHS 4303 Instructional Strategies and Classroom Management [3-0]

as scheduled

This course is designed for the student who is preparing to teach in high schools (8-12 level). The prospective teacher examines and models teaching styles that place the learner at the center of instruction. Integration of other disciplines, the learner's interests, and technological resources will be stressed in considering central themes of subject matter from many different viewpoints. Theories of and strategies for classroom management will also be addressed. This course requires a minimum of 25 hours in the public school setting.

EDHS 4398 Integrated Internship II: 8-12 [3-0]

as scheduled

A seminar format facilitates the intern's integration of the supervised internship experience and the program's professional curriculum for high school teacher certification. Emphasis is placed on linking classroom learning with practice in the field and integrating theory with professional practice. Internship situations and experiences will be used for discussion and analysis. This course must be taken concurrently with EDHS 4399.

EDHS 4399 Supervised Internship II: High School 8-12 [3-0]

as scheduled

This course is designed for students in specific content areas seeking high school (8-12) teacher certification. Interns will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDHS 4398.

## Middle School 4-8

EDMS 3305 Instructional Methods for English Language Learners and Learners with Exceptionalities In Middle Schools [3-0]

as scheduled

Designed for the prospective middle school teachers, this field-based course explores contemporary first and second language acquisition theories as they relate to instruction in content area classrooms in middle schools. Students will have the opportunity to learn to assess students' special needs whose first language is not English and those with exceptionalities. They will also study the integration of research-based practices for promoting literacy and language development in their teaching. This course also provides methods on motivating and involving English Language Learners (ELLs) and students with exceptionalities, providing future teachers with practical strategies to evaluate and teach struggling readers by linking assessment and instruction.

EDMS 3353 Young Adolescent Development and Learning [3-0]

as scheduled

This field-based course is centered on concepts, principles and theories of young adolescent development and learning differences of middle school students. It specifically focuses on the intellectual, physical, social, emotional and moral implications of these differences for teaching, learning and school organization. Students will study a variety of instructional strategies that take into consideration and capitalize upon the developmental characteristics of the middle school age group. Young adolescent development is the framework to understand the middle school concept and organization and how to work successfully within these organizational components in the 21st century. This course also considers issues of young adolescent health, sexuality, needs and their development within classrooms, families, peer groups, communities and society.

EDMS 3354 Middle School Curriculum Development and Assessment [3-0]

as scheduled

This field-based course examines major concepts, principles, theories and research related to middle school curriculum development, including how the middle level curriculum should be relevant, challenging, integrative and exploratory. It focuses on the interdisciplinary nature of knowledge making connections among subject areas when planning curriculum. It also addresses how to incorporate all young adolescents' ideas, interests and experiences into the curriculum, and how to implement a variety of developmentally responsive assessment measures (e.g., portfolios, authentic assessments, student self-evaluation). This course also describes the role of assessment in guiding instructional planning and the importance of creating assessments that are congruent with instructional goals and objectives. Specifically, it will address formal and informal assessment strategies used (advantages and limitations) to evaluate learning and teaching that ensure the continuous intellectual, social and physical development of all young adolescents. Finally, the course also focuses on the connection between the Texas statewide assessment programs, the TEKS, instruction and illustrates examples on how to use common statistical measures to analyze assessment data and maintain useful records to communicate such information



knowledgeably.

EDMS 3355 Instructional Technology Methods  
And Classroom Management for  
Middle School Classrooms [3-0]

as scheduled

This field-based course examines when and how to integrate technology into curriculum development, instruction and assessment and how to effectively organize and manage a middle school classroom. It presents the background on technology's role in middle school education and describes learning theories and teaching/learning models related to technology integration. This course discusses how technology and media are used to support instructional goals and objectives to engage students in meaningful learning, including the growing importance of connecting people and resources for a technology-permeated future (World Wide Web, distance-learning technology, etc.). Infusion of instructional technology across content areas will be emphasized, presenting examples of technology resources and integration strategies for several different content areas. Also, course focuses on practical applications of a learner-centered curriculum, classroom organization and management.

EDMS 4398 Integrated Internship II:  
Seminar-Middle School [3-0]

as scheduled

A seminar format facilitates the intern's integration of the supervised internship experience and the program's professional curriculum for middle school teacher certification. Emphasis is placed on linking classroom learning with practice in the field and integrating theory with professional practice. Internship situations and experiences will be used for discussion and analysis. This course must be taken concurrently with EDMS 4399.

EDMS 4399 Supervised Internship II:  
Middle School [3-0]

as scheduled

This course is designed for students seeking middle school teacher certification. Intern will be placed in a state-accredited public school all day under the guidance of an experienced classroom teacher (mentor) and a university supervisor for a minimum of twelve (12) weeks. This course must be taken concurrently with EDMS 4398. (Field-Based Approved Course.)

## Electrical Engineering

ELEE 1101 Introduction to Electrical Engineering [0-3]  
fall, spring

Introduction to electrical engineering as a career, fundamentals of analysis and graphical presentation of data

using software tools, approaches to problem solving, and a basic design project.

ELEE 2120 Electrical Circuits I Laboratory [0-3]  
fall, spring, summer

This course covers fundamental circuit measurement techniques and reinforces concepts from ELEE 2320, Electrical Circuits I. Topics include basic instrumentation; measurement of voltage, current, resistance, power, frequency and phase; analysis of experimental data; and reporting of technical results. Prerequisite: Credit or registration for ELEE 2320. Equivalent Course: CMPE 2120. A student may not receive credit for both CMPE 2120 and ELEE 2120.

ELEE 2130 Digital Systems  
Engineering I Laboratory [0-3]

fall, spring, summer

Basics of digital logic and hardware combinational circuits, flip-flops, resistors, sequential circuits and state machines. Co-requisite: Credit or registration for ELEE 2330. Equivalent Course: CMPE 2130. A student may not receive credit for both CMPE 2130 and ELEE 2130.

ELEE 2319 Numerical Computation  
and Data Visualization [2-3]

Topics in this course include performing engineering numeric calculations using computation tools, introduction to mathematics software languages, writing programs to solve scalar and multivariable problems using matrix algebra, numerical solution of linear equations, relational and logical operators, and plotting and visualization of data. Prerequisites: CSCI 1380 and MATH 2346, both with a grade of C or better.

ELEE 2320 Electrical Circuits I [3-0]  
fall, spring

This course covers fundamentals of electrical circuits, including basic definitions, Kirchoff's laws, nodal and loop analysis, superposition, Thevenin and Norton equivalents, time-varying circuits, simple transient response, sinusoidal steady-state analysis using phasors and power in sinusoidal steady-state circuits. Equivalent Course: CMPE 2320. A student may not receive credit for both CMPE 2320 and ELEE 2320. Prerequisite: Credit for MATH 1470, credit or registration for PHYS 2402.

ELEE 2321 Electrical Circuits II [3-0]  
fall, spring

Transient response of networks by Fourier and Laplace transform methods, frequency-domain techniques and time-domain techniques. Prerequisites: ELEE 2420 and credit for or enrollment in MATH 3349.

ELEE 2330 Digital Systems Engineering I [3-0]  
fall, spring, summer

Boolean algebra; analysis and synthesis of combinational and sequential switching network; applications to computer design. Co requisite: Credit or registration in MATH 1460 is recommended but not required. Equivalent Course: CMPE

2330. A student may not receive credit for both CMPE 2330 and ELEE 2330.

ELEE 2420 Electrical Circuits I [3-3]  
fall, spring  
Basic network principles, steady-state response to signals, simple transient response, and nodal and loop analysis. Prerequisite: Credit for or concurrent enrollment in MATH 2401.

ELEE 3100 Projects in Electrical Engineering [3-0]  
Special projects, research activities or supervised engineering studies. May be repeated for credit. Prerequisite: Consent of instructor.

ELEE 3225 Electrical Engineering Laboratory I [0-6]  
fall  
Basic experimental methods; theory and practice of measurements; limitations of theoretical models; reporting of technical results. Prerequisites: ELEE 2330 and ELEE 2130 with a grade of C or better and credit for or concurrent enrollment in ELEE 2321 and ELEE 3301.

ELEE 3301 Electronics I [3-0]  
fall  
A course in the physical principles of electronic devices with emphasis on semiconductor electronics. Includes the analysis and design of electronic circuits such as rectifiers, amplifiers and switching circuits using diodes, bipolar transistors, field effect transistors and operational amplifiers. Prerequisite: ELEE 2420 with a grade of C or better, credit for or enrollment in ELEE 2321.

ELEE 3302 Electronics II [3-0]  
spring  
Provides further study in electronic circuits. Includes analysis and design of differential and multistage amplifiers, feedback and frequency response techniques in amplifier design. Prerequisites: ELEE 2321 and ELEE 3301 with a grade of C or better.

ELEE 3305 Electrical Systems [2-3]  
fall, spring  
Introduction to electric circuits and machines. Circuit elements; voltage, current and power; DC circuits; AC circuits in the steady state; elementary circuits; polyphase circuits. Types and characteristics of DC motors, AC motors and transformers. This course may not be counted toward the Bachelor of Science in electrical engineering degree. Prerequisites for engineering majors: MATH 1402 and PHYS 2302. Prerequisites for other majors: MATH 1402 and PHYS 1402.

ELEE 3306 Electronic Systems [2-3]  
spring  
Electronic devices and circuits with applications in modern industrial control systems; electronic circuits for signal processing and wave shaping and analog computing; basic digital computer circuits; transducers and sensors; electronic instruments; measurements; basic feedback control systems.

Prerequisite: ELEE 3305.

ELEE 3307 Electrical and Electronic Systems [2-3]  
fall, spring, summer II  
An introductory survey of electrical engineering topics including principles of DC and AC circuits; electric motor types and characteristics; basic operation of diodes, transistors, and operational amplifiers; logic circuits; and electrical measurements. This course is intended for non-majors and may not be counted for credit toward a degree in electrical engineering.  
Prerequisite: PHYS 2402

ELEE 3315 Electromagnetic Engineering [3-0]  
fall  
Introduction to electrostatics and magnetostatics; properties of conductive, dielectric, and magnetic materials; time varying-fields; Maxwell's equations; transmission lines and transmission line circuits; fundamentals of electromagnetic radiation. Prerequisites: ELEE 2320 and MATH 2401, and PHYS 2402.

ELEE 3330 Electrical Engineering Laboratory II [1-6]  
spring  
Experimental solution of engineering problems, including design, optimization, evaluation and simulation; advanced measurement techniques in electrical, electronic and digital systems. Prerequisites: ELEE 3301 and ELEE 3225 with a grade of C or better; credit for or enrollment in ELEE 3302.-

ELEE 3340 Probability and Statistics for Electrical Engineers [3-0]  
fall, spring, summer  
Probability, random variables, distribution and density functions, statistical estimators, correlation, regression techniques, system response to random inputs. Prerequisite: ELEE 2321 or CMPE 2322. Equivalent Course: CMPE 3342. A student may not receive credit for both ELEE 3340 and CMPE 3342.

ELEE 3371 Electrical Power Systems Design and Application [3-0]  
spring  
This course covers practical design of electrical power and lighting distribution for commercial, industrial and residential buildings, based on National Electrical Code (NEC) standards. The NEC, regulatory considerations, industry standards and the Texas Engineering Practice Act are discussed. Current commercial, industrial and residential projects are analyzed, and students will have the opportunity to complete designs for sample residential and office buildings. Prerequisites: ELEE 2420 or ELEE 3305.

ELEE 3435 Microprocessor Systems [3-3]  
fall, spring, summer  
Basic microprocessor programming and principles of assembly language programming; microprocessor organization and interfacing; applications, including data acquisition, control and communication. Prerequisites: CSCI

1380 and ELEE 2330. Equivalent Course: CMPE 3437. A student may not receive credit for both ELEE 3435 and CMPE 3437.

ELEE 4303 Digital Systems Engineering II [3-0]  
fall, spring, summer  
Hardware implementation of arithmetic and other algorithmic processes; organization, design and simulation of digital systems; asynchronous sequential switching networks. Prerequisite: ELEE 2330. Equivalent Course: CMPE 4303. A student may not receive credit for both CMPE 4303 and ELEE 4303.

ELEE 4321 Automatic Control Systems [3-0]  
fall  
Dynamic system modeling; system stability; time-domain analysis; root-locus technique; frequency-domain analysis; control system design. Prerequisites: ELEE 2321 and MATH 3349 with a grade of C or better.

ELEE 4323 Rapid Control Prototyping [2-3]  
as scheduled  
This course introduces students to the design and implementation of control software using rapid control prototyping technology. The course discusses the requirements for real-time control of systems, and focuses on the methodology of computer-aided software development for real-time control and hardware interfacing using data acquisition systems. Students will acquire skills, through laboratory activities, in the use of an integrated environment for designing, simulating, and real-time testing of control strategies on a number of physical systems. Examples of laboratory projects include: temperature control, motor position control, motor speed control, and trajectory tracking of an industrial robot manipulator. Prerequisite: Junior standing in Electrical Engineering.

ELEE 4325 Introduction to Robotics [2-3]  
spring  
This course uses a system engineering approach to introduce students to robotic science and technology. Topics include the fundamentals of robot manipulators, sensors, actuators, effectors, Denavit-Hartenberg parameterization of robot kinematics, motion planning in the joint space and in the Cartesian space, and programming of manipulators. The laboratory will provide experiences with computer simulation and animation of robot manipulators, and developing and testing motion and manipulation applications on an actual six degree-of-freedom (6DOF) robot arm. Prerequisite: ELEE 2319 and ELEE 3225

ELEE 4328 Solid State Electronic Devices [3-0]  
fall  
Semiconductor materials and carrier transport; p-n junctions and Schottky barriers; bipolar and field effect transistors; integrated circuits. Prerequisites: CHEM 1301, CHEM 1101, ELEE 3315 and ELEE 3301 with a grade of C or better.

ELEE 4351 Communication Theory [3-0]  
fall

Signals, systems and analog modulation techniques; effects of noise in modulation systems, signal-to-noise ratio; digital data transmission; probability of error. Prerequisite: ELEE 3340 with a grade of C or better.

ELEE 4360 Microwave Systems Engineering [2-3]  
as scheduled  
Ideal and lossy transmission lines: s-parameters; couplers, isolators, circulators and filters; basic active circuits; systems and component specifications; antenna and radiation specifications. Prerequisites: ELEE 3315 and ELEE 3301 with a grade of C or better.

ELEE 4361 Senior Design Project I [0-9]  
fall, spring  
This is the first semester of a capstone design experience, drawing from previous engineering, science, and general education coursework. The first semester includes project selection, definition, and specification; background research; periodic written and oral reports; and preparation of a detailed proposal including a preliminary design. Prerequisites: ELEE 3330, ELEE 3435, and credit for or enrollment in at least 9 hours of 4000-level electrical engineering coursework.

ELEE 4362 Senior Design Project II [0-9]  
fall, spring  
This is the second semester of a capstone design experience, drawing from previous engineering, science, and general education coursework. The second semester includes preliminary test and evaluation, design optimization and revision, and final test and evaluation. Periodic written and oral reports, and a final demonstration of a working project are required. Prerequisite: ELEE 4361

ELEE 4365 Digital Signal Processing [3-0]  
fall, spring, summer  
Sampling theory, discrete processing of analog signals, discrete Fourier transforms, signal analysis, z-transforms, digital filter design, real-time digital signal processing and applications. Prerequisite: ELEE 2321 or CMPE 2322 and credit for or concurrent enrollment in MATH 3349. Equivalent Course: CMPE 4365. A student may not receive credit for both ELEE 4365 and CMPE 4365.

ELEE 4366 Introduction to Image Processing [3-0]  
fall, spring, summer  
This course provides an introduction to image processing topics and design of image processing software. It covers methods for computer analysis of images, and processing of images including image formation, spatial resolution, preprocessing techniques, image filtering, image enhancement and image segmentation methods. Prerequisite: ELEE 2319 or equivalent. Equivalent Course: CMPE 4366. A student may not receive credit for both CMPE 4366 and ELEE 4366.

ELEE 4367 Fiber Optic Communications [2-3]  
fall, spring, summer

Introduction to optics, photonics, and optoelectronics; fiber optic devices; and communication systems. Topics include ray optics, electromagnetic optics, resonator optics, dielectric waveguides and filters, semiconductor and laser light sources and detectors, modulators, amplifiers, connectors and optical fiber communication systems. Prerequisite: ELEE 2321 or CMPE 2322. Equivalent Course: ELEE 4367. A student may not receive credit for both ELEE 4367 and CMPE 4367.

ELEE 4372 Electrical Machinery and Power Systems Fundamentals [3-0]  
as scheduled

This course covers principles of electrical machines & power systems; including AC and DC rotating machinery and transformers, with emphasis on their losses and energy conversion characteristics. It includes basic modeling of power systems components, using traditional analytical tools of electrical engineering. Laboratory projects are included outside of scheduled class hours. Prerequisite: PHYS 2402 and ELEE 2320.

ELEE 4375 Introduction to VLSI [3-0]  
fall, spring, summer

This course provides an introduction to the area of CMOS VLSI design and design of VLSI circuits, including CMOS logic circuits, integrated circuit layout and design tools and overview of integrated circuit fabrication. Prerequisite: ELEE 2330 and ELEE 3301. Equivalent Course: CMPE 4375. A student may not receive credit for both CMPE 4375 and ELEE 4375.

ELEE 4378 Signal Integrity and Electromagnetic Compatibility [3-0]  
fall, spring, summer

Distortion of digital signals analyzed via lumped element and transmission line models, power distribution in electronic systems, printed circuit layout guidelines, basic electromagnetic principles as applied to shielding and grounding, EMI regulations. Prerequisite: ELEE 2321 or CMPE 2322. Equivalent Course: CMPE 4378. A student may not receive credit for both ELEE 4378 and CMPE 4378.

ELEE 4380 Computer Architecture [3-0]  
fall, spring, summer

This course presents an overview of digital computer architecture, including architectural issues for processors, instruction sets, microprogramming, memory hierarchy and interleaving, cache and virtual memory mapping, RISC principles, and principles of pipelining and pipeline hazards, as well as input/output devices. Prerequisite: One of the following: ELEE 3435 or CMPE 3437. Equivalent Course: CMPE 4380. A student may receive credit for only one of the following: CMPE 4380, ELEE 4380, CSCI 4335, CMPE 4335.

ELEE 4390 Communication Networks [3-0]  
fall, spring, summer

This course covers engineering principles of data communications, including the following topics: communication media and signal encoding schemes, point-to-

point communication standards, layering concepts, data-link protocols, network protocols, transport layer protocols, error control, flow control, congestion control, routing algorithms, virtual circuits, call setup procedure, TCP/IP protocol, internetworking, switching and switching fabric, frame relays, ATM and emerging technologies. Prerequisite: ELEE 3435 or junior standing. Equivalent Course: CMPE 4390. A student may not receive credit for both CMPE 4390 and ELEE 4390.

ELEE 4461 Senior Design Project I [1-9]  
as scheduled

This is the first semester of a capstone design experience, drawing from previous engineering, science and general education coursework. Activities will include project selection, definition and specification; background research; periodic written and oral reports, and preparation of a detailed proposal including a preliminary design. Prerequisites: ELEE 3330, 3435, and credit for or enrollment in at least nine hours of 4000-level electrical engineering coursework.

ELEE 4462 Senior Design Project II [1-9]  
as scheduled

This is the second semester of a capstone design experience, drawing from previous engineering, science and general education coursework. Activities include preliminary test and evaluation, design optimization and revision, and final test and evaluation. Periodic written and oral reports, and final demonstration of a working project are required. Prerequisite: ELEE 4461.

## English

ENG 1301 Composition [3-0]  
(Texas Common Course Number is ENGL 1301.)  
as scheduled

This course affords the opportunity for students to develop their ability to communicate effectively and responsibly through written discourse. Emphasis upon mechanical proficiency and organization skills in writing expository essays, analysis of style, tone and point of view of expository prose. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) Prerequisite: Satisfactory scores on English portion of ACT test and TASP examination, or ENG 1320.

ENG 1302 Rhetoric [3-0]  
(Texas Common Course Number is ENGL 1302.)  
as scheduled

This course offers the opportunity to learn to recognize and to employ the principles of rhetoric in written discourse. Analysis of rhetoric and logic, writing of essays and study of research and documentation techniques. Requires the completion of a research project. (Credit for this course may be obtained by qualified students through advanced

placement or advanced standing examinations.) Prerequisite: A grade of C or better in ENG 1301, ENGL 1387 or ENG 1406.

ENG 1310 Reading-Vocabulary [3-0]  
as scheduled

This course offers students the opportunity to develop their ability to read college-level materials. Emphasis on vocabulary and word recognition skills, comprehension skills, study skills and efficiency in content area reading. Required of students with reading skills below college level. Course does not satisfy University core curriculum requirements.

ENG 1320 Basic Writing [3-0]  
as scheduled

Intensive study and practice in basic grammar and fundamentals of composition. Emphasis on punctuation, sentence combining, sentence construction, correct language use and other basic writing skills. Does not count toward hours for graduation or in the computation of hours attempted or earned. A course grade will be recorded as Pass (P) or No Pass (NP). (There will be special sections for foreign-born students. A minimum score of 500 on TOEFL or minimum score of 60 on MTEL is required for entrance.)

ENG 1387 Rhetoric and Composition [3-0]  
(Honors Plan)  
as scheduled

Study and practice of writing effectively, with emphasis on expository writing and the research paper. Prerequisite: Admission to the Honors Studies Program or by invitation.

ENG 1388 Rhetoric and Literature [3-0]  
(Honors Plan)  
as scheduled

Study and practice of writing effectively/interpreting literature. Emphasis on critical analysis of essays, fiction and poetry. Prerequisite: ENGL 1387 or by invitation.

ENG 2300 Introduction to Literature [3-0]  
as scheduled

An introduction to literary genres, with special emphasis on the short story, novel or novella, drama and poetry. Requires careful reading and the writing of critical essays about individual works. Prerequisite: Minimum grade of C in six hours of required freshman English.

ENG 2303 Introduction to American Literature [3-0]  
(Texas Common Course Number is ENGL 2326.)  
as scheduled

Emphasis on critical methods of reading, writing and thinking; at least three genres and three authors considered. Prerequisite: Minimum grade of C in six hours of required freshman English.

ENG 2305 Introduction to British Literature [3-0]  
(Texas Common Course Number is ENGL 2322.)  
as scheduled

Emphasis on critical methods of reading, writing and thinking; at least three genres and three authors considered. Prerequisite: Minimum grade of C in six hours of required freshman English.

ENG 2307 Introduction to World Literature [3-0]  
(Texas Common Course Number is ENGL 2331.)  
as scheduled

Emphasis on critical methods of reading, writing and thinking; at least three genres and three authors considered. Prerequisite: Minimum grade of C in six hours of required freshman English.

ENG 2308 Readings in Special Topics [3-0]  
as scheduled

A study of the literature associated with a special group, area, movement or technique. The topic to vary with each section. Special topics to be announced in the class schedule. Credit Restriction: May be taken only once to satisfy University core curriculum requirements but may be repeated for elective credit when the topic varies. Prerequisite: Minimum grade of C in six hours of required freshman English.

ENG 2313 Readings in Dramatic Literature [3-0]  
as scheduled

Critical review and analysis of selected plays from Greek antiquity to the present time. Designed to clarify the nature and major achievements of Western dramatic art. Equivalent Course: COMM 2313; may be counted as English or communication in satisfying degree requirements. Credit may be received for only one course. Prerequisite (for English credit): Minimum grade of C in six hours of required freshman English.

ENG 2387 Readings in World Literature [3-0]  
(Honors Plan)  
as scheduled

A study of selected works from the literature of Greece, Rome and Medieval Europe. Prerequisite: Admission to Honors Studies or by invitation.

ENG 2388 Readings in World Literature [3-0]  
(Honors Plan)  
as scheduled

A study of selected works of Western literature from Renaissance through modern writers. Prerequisite: Admission to Honors Studies or by invitation.

ENG 3300 Introduction to Language Studies [3-0]  
spring

Provides an overview of the cross-disciplinary nature of language issues from the theoretical contexts of linguistics to political interactions among languages in contact, to applications of language study for various disciplines including education, psychology, sociology, acquisition, learning, literacy, law, medicine, computer technology, etc.

ENG 3301 Medieval Literature [3-0]  
as scheduled

A study of various types of medieval literature, including the

epic, the romance and the allegory, with special attention to Middle English writers. Prerequisite: Nine hours of English.

ENG 3304 The Eighteenth Century [3-0]  
as scheduled

A study of the major works of English writers of the Neo-classical period, including Dryden, Congreve, Pope, Swift, Sterne and Samuel Johnson. Prerequisite: Nine hours of English.

ENG 3305 The Romantic Period [3-0]  
as scheduled

A study of the development of romanticism in France, Germany and England, with the main emphasis on English writers. Prerequisite: Nine hours of English.

ENG 3306 The English Novel to 1850 [3-0]  
as scheduled

A study of the origins and development of the English novel with emphasis on the major novelists. Prerequisite: Nine hours of English.

ENG 3307 The English Novel  
from 1850 to Present [3-0]  
as scheduled

A study of the continuing development and techniques of the English novel with emphasis on the major novelists. Prerequisite: Nine hours of English.

ENG 3309 Development of  
the American Novel [3-0]  
as scheduled

A study of the American novel from its beginnings to the present, with emphasis on the major novelists. Prerequisite: Nine hours of English.

ENG 3310 Twentieth Century English  
and American Poetry [3-0]  
as scheduled

A study of the trends and movements in contemporary poetry, with emphasis on the works of the major writers. Prerequisite: Nine hours of English.

ENG 3311 Contemporary Drama [3-0]  
as scheduled

A study of trends and movements in 20th century American, British and European drama, with emphasis on works of major playwrights. Equivalent Course: COMM 3311; may be counted as English or communication in satisfying degree requirements. Credit may be received for only one course. Prerequisite: Nine hours of English.

ENG 3312 Survey of American Literature [3-0]  
as scheduled

A chronological study of the principal authors, works and trends in American literature from the colonial period through the Civil War. Prerequisite: Nine hours of English.

ENG 3313 Survey of American Literature [3-0]  
as scheduled

A chronological study of the principal authors, works and

trends in American literature from the Civil War to the present. Prerequisite: Nine hours of English.

ENG 3314 Hemingway [3-0]  
as scheduled

A study of Hemingway's novels and short stories, especially those about Spain and Cuba.

ENG 3315 Introduction to Film Studies [3-0]  
as scheduled

An introduction to the study of film as a particular literary genre with special emphasis on fictional film, technical film analysis and cinematic interpretation. Prerequisite: Nine hours of English.

ENG 3316 Literature and Film Adaptation [3-0]  
as scheduled

A study of film adaptations of literary works with a special focus on the different types of adaptations, the levels of fidelity, and the historical and technical differences between the two artistic mediums. Prerequisite: Nine hours of English.

ENG 3317 The Short Story and the Novella [3-0]  
as scheduled

A study of the development and technique of the short story and novella with emphasis on literary analysis. Prerequisite: Nine hours of English.

ENG 3319 Introduction to  
Descriptive Linguistics [3-0]  
as scheduled

An introduction to the methods of linguistic science with emphasis on problem-solving techniques and their application to specific problems. Prerequisite: Nine hours of English.

ENG 3320 Advanced Topics in English [3-0]  
as scheduled

A course adapted to the study of advanced special topics in English. Course may be offered for open enrollment when topic is selected by the instructor; or course may be conducted as independent/conference study when topic is selected by student and approved by the instructor. May be repeated for credit when topics vary. Prerequisite: Nine hours of English.

ENG 3321 Language and Culture [3-0]  
as scheduled

Systematic exploration of social aspects of language and language use, including language attitudes, sociolinguistic dynamics of language contact situations, language learning, and the social and linguistic nature of dialects, language variation and language change. Prerequisite: Nine hours of English.

ENG 3322 Poetry [3-0]  
as scheduled

An in-depth study of the art and nature of poetry, with emphasis on sounds, forms, language and modes of poetry. Prerequisite: Nine hours of English.

ENG 3323 World Drama [3-0]

as scheduled

A study of trends and movements in dramatic literature from ancient Greece through the present. Emphasis on the works of major playwrights. Equivalent Course: COMM 3323; may be counted as English or communication in satisfying degree requirements. Credit may be received for only one course.

Prerequisite: Nine hours of English.

ENG 3324 The Victorian Period [3-0]  
as scheduled

A study of the literature of Victorian England, from 1832 to the end of the 19th Century. Prerequisite: Nine hours of English.

ENG 3325 Children/Adolescent Literature [3-0]  
as scheduled

A study of selected children's and adolescent literary works. Discussion and demonstration of pedagogical strategies. Emphasis on important representative examples and related criticism. Prerequisite: Nine hours of English.

ENG 3326 Writing and Culture [3-0]  
as scheduled

Course provides students the opportunity to analyze and explore the complex ways in which culture shapes and is shaped by writing and other forms of textual representation.

ENG 3330 English Grammar [3-0]  
as scheduled

A study of grammatical concepts with concentration on basic sentence structure, principles of punctuation and functional grammar. Course designed for, but not limited to, prospective teachers of students with limited English speaking/writing ability and/or ESL students. Prerequisite: ENG 3319.

ENG 3331 Survey of English Literature [3-0]  
as scheduled

A chronological study of the principle authors, works and trends in English literature from the Anglo-Saxon period to the beginning of the Romantic movement. Prerequisite: Nine hours of English.

ENG 3332 Survey of English Literature [3-0]  
as scheduled

A chronological study of the principle authors, works and trends in English literature from pre-Romantic poetry to the 20th century. Prerequisite: Nine hours of English.

ENG 3333 Technical Report Writing [3-0]  
as scheduled

Training in writing and presentation of special types of reports often used in engineering, science and business. Prerequisite: Nine hours of English.

ENG 3334 Gallery [3-0]  
spring

A hands-on course on the process of selecting material, editing and publishing a student literary arts journal. Includes fundamentals of publicity; manuscript processing, selection, and editing; page design; cover art; printing requirements. Prerequisite: Nine hours of English.

ENG 3336 Creative Writing I [3-0]  
as scheduled

An introductory study of literary form and techniques, with practice in writing poetry and prose.

ENG 3337 Creative Nonfiction [3-0]  
as scheduled

Explores creative nonfiction as an historical genre and offers students the opportunity to create and workshop their own essays.

ENG 3338 Advanced Composition [3-0]  
as scheduled

Course offers students the opportunity to develop a sustained writing project to completion. Course covers methods of defining the parameters of a project, analyzing audience and publications, and designing and publishing the project.

ENG 3341 Women's Rhetoric and Language [3-0]  
as scheduled

This course provides a focus on rhetoric and language in women's experiences. Related topics will include the contribution women have made to the Western rhetorical tradition as well as the consideration of the differences in actual language uses and conventions by and about women.

ENG 3342 Ethnic Women Writers [3-0]  
as scheduled

This course provides a focus on women's writing from a multicultural perspective. Centered on the study of literary works and literary theory either by or about women, this course offers a global perspective and pursues insights about various approaches to the question of ethnic women and their representation.

ENG 3343 Women's Literature [3-0]  
as scheduled

This course provides a focus on literature by women and the contributions that such literature has made to a variety of cultural and social contexts. The focus will be on feminist perspectives and theories in critical analysis.

ENG 3344 Latin American Women Writers [3-0]  
as scheduled

Both feminism and women's writing in Latin America has grown out of unique histories, social conditions, and geographical diversity constituting a thinking rooted in Marxism, socialism, and grassroots movements. This course will discuss a number of literary texts by Latin American women as well as some films and historical and theoretical essays. The course is designed to explore how Latin American women's literature and feminism (generally marginalized by Women's Studies courses in the U.S.) challenges the tradition of women's literature and Feminisms in the West and makes us rethink the approaches to gender prioritized in the U.S.  
Prerequisites: None

## INDEX

- ENG 3350 Survey of World Literature [3-0]  
as scheduled  
A focused study of the principle authors, works and trends in world literature from the ancient world to the contemporary period. Specific focus on period, genre or theme will be determined by the individual instructor.
- ENG 3398 Contemporary American Fiction [3-0]  
as scheduled  
Contemporary American Fiction is a study of short fiction and novels by contemporary American authors in the context of American literary history with an emphasis on critical analysis. Prerequisite: nine hours of English.
- ENG 3399 Contemporary American Poetry [3-0]  
as scheduled  
Contemporary American poetry is a study of poetry by contemporary American authors in the context of American literary history with an emphasis on critical analysis. Prerequisite: nine hours of English.
- ENG 4301 Shakespeare [3-0]  
as scheduled  
A study of representative comedies, histories, romances and tragedies. Prerequisite: Nine hours of English.
- ENG 4302 Modern English Syntax [3-0]  
as scheduled  
Studies in modern English syntax with attention given to investigative methods and findings of contemporary linguistic analysis. Prerequisite: ENG 3319.
- ENG 4304 Introduction to Cultural Studies [3-0]  
as scheduled  
Historical and textual study of the discipline of cultural studies, with emphasis on major figures and schools in cultural studies and their relation to textual analysis.
- ENG 4305 Survey of Literary Theory [3-0]  
as scheduled  
Introduces students to the general principles of literary theory and provides opportunities for practical application of theoretical models to literary texts.
- ENG 4306 Applied Literary Theory [3-0]  
as scheduled  
Practical application of theoretical models to literary texts. Particular focus on major figures, schools and movements in contemporary literary theory. Prerequisite: ENG 4305.
- ENG 4307 Applied Discourse Studies [3-0]  
as scheduled  
Offers students experience in the practice and methods of rhetorical and discourse analysis applied to specific topics by the instructor.
- ENG 4308 History of the English Language [3-0]  
as scheduled  
A history of the English language from the Anglo-Saxon period to the present. Prerequisite: Nine hours of English.
- ENG 4309 Chaucer [3-0]  
as scheduled  
A study of selected works of the 14th century English poet. Prerequisite: Nine hours of English.
- ENG 4310 American Literature of the South [3-0]  
as scheduled  
A study of the works of representative writers of the south. Prerequisite: Nine hours of English.
- ENG 4312 Milton [3-0]  
as scheduled  
A study of the major poems and selected prose and minor poetry. Prerequisite: Nine hours of English.
- ENG 4313 Topics in International Film [3-0]  
as scheduled  
Investigates the cultural, political, aesthetic, ideological, historical, and theoretical issues of international cinema. May be repeated once when the topic varies. Prerequisite: None
- ENG 4314 Contrastive Grammar [3-0]  
as scheduled  
A comparison of English and Spanish grammatical systems with emphasis on substantive and descriptive problems arising from the differences in the systems. Course open only to students with proficiency in both English and Spanish. Prerequisite: ENG 4302.
- ENG 4316 Mexican-American Literature [3-0]  
as scheduled  
A study of the literature by and about Mexican-Americans, with emphasis on the literary techniques and the cultural reflections in this literature. Prerequisite: Nine hours of English.
- ENG 4317 Film Theory [3-0]  
as scheduled  
A study of film critics' and theorists' responses to film and the various theories that have been developed, including formalism, realism, auteurism, ideology critique, feminism, psychoanalysis, and cultural studies. Prerequisite: None
- ENG 4318 Teaching Secondary School Literature [3-0]  
as scheduled  
A study of the characteristics of poetry, drama and fiction and of the major approaches to these genres with some attention to works encountered in secondary schools. Prerequisite: Nine hours of English.
- ENG 4319 South Texas Literature [3-0]  
as scheduled  
A survey of the literary history of South Texas. This course will emphasize, but is not limited to, history, culture, borderlands aesthetics and canon formation.
- ENG 4320 Topics in Border Studies [3-0]  
as scheduled



Intensive exploration of selected literary, theoretical and rhetorical topics in border studies. Particular focus on issues relevant to the intercultural interactions endemic to border sites and transnational borders.

ENG 4321 Fundamentals of Language Development [3-0]

as scheduled

A study of how children develop language skills from age five through adolescence. Covers all systems of language from basic sounds through competence in oral and written communication.

ENG 4323 Studies in Literacy [3-0]

as scheduled

Course examines the history and theories of literacy, including the critical ways literacy is connected to personal, political and social forces and ramifications.

ENG 4324 Survey of Rhetorical Theory [3-0]

as scheduled

Course surveys important rhetorical movements from classical to contemporary theories in order to demonstrate the significant influence theories of rhetoric have and continue to have in the social and political functions of discourse.

ENG 4325 Composition Techniques [3-0]

as scheduled

A study of advanced composition techniques, including theories and methods of teaching composition skills. Prerequisite: Nine hours of English.

ENG 4326 Language Acquisition [3-0]

as scheduled

An analysis of the process of language learning, the normal development of speech and language, and the relationship of language to cognitive and social development.

ENG 4328 Introduction to English as a Second Language [3-0]

as scheduled

A study of the process of learning English as a second language. Special attention given to theories, variables and second language acquisition.

ENG 4330 Alternative Rhetorics [3-0]

as scheduled

Course considers important contributions to rhetorical and discourse theories that have been overlooked or have been traditionally marginalized in dominant studies of discourse theory. Topic varies, determined by instructor.

ENG 4331 Introduction to Border Language [3-0]

as scheduled

This course provides an introduction to language use along the US-Mexico border with special attention given to Texas and Valley speech. Topics to be discussed include bilingualism; English and Spanish varieties of speech;

language and literacy acquisition education; social, cultural and historical influences on the border and Valley speech; language attitudes; maintenance/shift; and language planning (policy).

ENG 4336 Advanced Creative Writing [3-0]

as scheduled

A workshop course devoted to the crafts of poetry and prose. Prerequisite: ENG 3336 or permission of instructor.

ENG 4337 Forms and Techniques in Creative Writing [3-0]

as scheduled

Studies and practice in poetics, figurative language, metrics, narrative arc, symbol and other formal aspects of poetry and prose.

ENG 4340 Special Topics in Creative Writing [3-0]

as scheduled

Offers students the opportunity to explore and practice various genres and subgenres of creative writing as specified by the instructor.

ENG 4343 Assessment and Response to Writing [3-0]

as scheduled

Study of writing assessment theory and practice with a focus on how to respond to and evaluate student writing and design meaningful assessment strategies for the classroom. Prerequisite: nine hours of English

ENG 4390 Advanced Topics in Film Studies [3-0]

as scheduled

Advanced study of the film associated with a particular movement, genre, director, theme, or stylistic technique. May be repeated once when the topic varies. Prerequisite: English 3315

# General Engineering

- ENGR 1101 Introduction to Engineering [1-0]  
fall, spring, summer  
Introduction to engineering as a career, the requirements for registration as a professional engineer and the fields of specialization within engineering. Approaches to engineering problem solving and the graphical presentation of data. Prerequisite: Computer literacy.
- ENGR 1211 Undergraduate Research [0-6]  
fall, spring, summer  
Active engineering or material science laboratory or computational research under the supervision of a college of science and engineering faculty member. Prerequisite: Approval of the supervising faculty member.
- ENGR 1311 Expanded Undergraduate Research [0-9]  
fall, spring, summer  
Active engineering or material science laboratory or computational research under the supervision of a college of science and engineering faculty member. Prerequisite: Approval of the supervising faculty member.
- ENGR 2101 Engineering Technology Laboratory [0-3]  
fall, spring, summer  
Introduction to machine shop tool operations, metrology, advanced laboratory skills and data analysis. Prerequisites: Sophomore standing and completion of ENGR 1221. \$4 laboratory fee.
- ENGR 3101 Engineering Projects Laboratory [0-3]  
as scheduled  
Special construction projects, research activities or supervised engineering studies. May be repeated once for credit. Prerequisite: Junior standing or consent of instructor. \$4 laboratory fee.
- ENGR 3300 Internship/Co-op in Engineering [4-0]  
as scheduled  
This course is designed to give students in engineering an opportunity to gain practical work experience by working in an engineering trainee or related position with a participating employer. The student will be advised and mentored by a faculty member or staff person who will also serve as a liaison between the university and the employer. The employment period may be during the summer or an academic semester. Each student will be required to write a report on his/her work experience. The course may be repeated for each continuous work period and may count toward the International Endorsement if the work assignment is outside the United States. Prerequisite: Must be an engineering major in good academic standing.
- ENGR 3333 Topics in Engineering [3-0]

as scheduled  
The topic will be changed by demand. May be repeated for credit. Intermediate topics in the engineering disciplines will be presented. Prerequisite: Junior standing in engineering or consent of instructor.

- ENGR 4161 Senior Design Project I [1-0]  
fall, spring  
This course is a preparation for a capstone design experience drawing from all previous coursework, and involves analysis of engineering methods problem definition, assumptions, methods of analysis and testing and reporting results. Classroom discussions will consider professional responsibility, ethics, technology and society, entrepreneurship, team building and lifelong learning. The project to be undertaken in Senior Design Project II (ENGR 4362) will be selected. Prerequisite: Senior standing in engineering.
- ENGR 4261 Senior Design Lab [0-6]  
fall, spring  
This laboratory involves implementation of design methodologies and engineering science into a real-world design. \$30 lab fee. Prerequisite: Senior standing in engineering. Co-requisite: ENGR 4161.
- ENGR 4362 Senior Design Project II [0-9]  
fall, spring  
This is a continuation of ENGR 4161. Students will conduct a comprehensive engineering design of a project related to their major and report on the results. Synthesis using past coursework and outside reference material will be expected. Periodic progress reports and final oral and written reports will be required. \$30 lab fee. Prerequisite: Senior standing in engineering.

# Environmental Science

- ENSC 3400 Environmental Science and Public Policy [3-3]  
as scheduled  
A study of populations, communities and ecosystems and how these are affected by human perturbations such as pollution of air, water, and soil, deforestation, global warming and energy consumption. Critical examination of federal and state policies that affect the environment and "quality of life" is included. *Prerequisites: 8 hrs of freshman biology, chemistry, geology, and physics.* \$4 Lab Fee.
- ENSC 3401 Environmental Regulations and Environmental Impact Analysis [3-3]  
as scheduled  
This course includes an overview of state and federal environmental agencies, laws, and regulations. The practical consequences of these law and regulations are demonstrated through case studies. Students gain experience in preparing environmental impact statements. Prerequisite: ENVS 3400. \$4 Lab Fee.

# Finance

FINA 3382 Investment Principles [3-0]  
as scheduled

This course provides an overview of the valuation of investment securities of corporations and governmental agencies. The purchase and sale of securities through brokerage houses and investment banking firms are also studied.

FINA 3383 Managerial Finance [3-0]  
as scheduled

The finance function in the firm and the specific responsibilities of the firm's financial manager are studied in this course. Emphasis is placed on financial decisions using managerial information systems as an integrating force to deliver planned results. This study includes, but is not limited to, decisions affecting the internal management of the firm and the acquisition of new assets and funds. Prerequisites: ACCT 2301, ACCT 2302 and ECON 2301.

FINA 3384 Fundamentals of Real Estate [3-0]  
as scheduled

This course studies the physical and economic characteristics of real estate, particularly as they relate to law, taxation, appraisal, marketing and finance.

FINA 3385 Principles of Insurance [3-0]  
as scheduled

The identification and control of risks facing the individual and the business firm, as well as the use of insurance and other mechanisms in dealing with them, are studied. Other topics include risk analysis, loss prevention, personal and property insurance, insurance programs and estate plans.

FINA 3386 Financial Institutions and Markets [3-0]  
as scheduled

The dynamics of financial markets and their interaction with the suppliers of funds, particularly financial intermediaries, are studied in this course. Prerequisite: FINA 3381.

FINA 3387 Real Estate Finance [3-0]  
as scheduled

This course provides an analysis of the nature and problems of developing the financing of real estate. Also, it covers a study of financial markets and instruments that are used to solve the financial needs of various real estate activities. Prerequisite: FINA 3384 or consent of instructor.

FINA 3391 Small Business Financial Management [3-0]  
as scheduled

This course covers three important aspects of financial management for the small business: 1) sources of financing; 2) financial planning; and 3) valuation of the small business. Students will be required to complete a term project involving at least one of these aspects in a real business situation. Prerequisites: ACC 2301, MANA 3361 and three

hours of economics.

FINA 3393 Entrepreneurial Finance [3-0]  
This course provides an in-depth analysis of venture financing and techniques to manage entrepreneurial risk. Prerequisites: ACC 2301, MANA 3361 and three hours of economics.

FINA 4300 Topics in Finance [3-0]  
as scheduled

A special finance topic will be selected by the instructor. Total course content and requirements will be established on an individual basis by the instructor. Prerequisites: Consent of instructor.

FINA 4381 International Finance [3-0]  
as scheduled

The application of finance principles in the international environment are discussed in this course, including the nature of the balance of payment mechanism, the factors affecting the foreign exchange market, defensive techniques to protect the business against foreign exchange risk and the investing, financing and working capital management within a multinational firm. Prerequisite: FINA 3383.

FINA 4382 Portfolio Management [3-0]  
as scheduled

This course provides the theoretical framework, techniques and applications of investment management. It also develops models for performance evaluation emphasizing optimum combination of risk and return. Prerequisite: FINA 3382.

FINA 4383 Advanced Managerial Finance [3-0]  
fall, spring

This finance major capstone course focuses on the major decision areas of managerial finance. This course builds on the theoretical concepts and empirical evidence presented in introductory courses of corporate finance, investments and financial markets. It uses a case-based approach to apply these concepts to real or simulated business situations. Some of the topics covered in this course include the cost of capital, the capital structure of the firm, capital budgeting, financial analysis and planning and working capital management. Prerequisites: (FINA 3381 or FINA 3386), FINA 3382 and FINA 3383.

FINA 4389 Commercial Banking [3-0]  
as scheduled

The principles and policies affecting the services, organization and management of funds in the commercial bank are studied in this course. Policy formulation is emphasized. Coordination with general economic and money market conditions are covered. Prerequisites: ECON 3381 or FINA 3386.

# Foreign Languages

FORL 1391 Elementary Studies in Foreign Languages I [3-0]  
fall  
Beginning studies in critical languages of importance to the region. May be repeated for credit up to two times as the language of study varies.

FORL 1392 Elementary Studies in Foreign Languages II [3-0]  
fall  
Continuation of beginning studies in critical languages of importance to the region. May be repeated for credit up to two times as the language of study varies.

## French

FREN 1321 Beginning French I [3-0]  
(Texas Common Course Number is FREN 1311.)  
fall, spring  
A study of the essentials of French grammar, pronunciation, elementary conversation and prose reading. Credit Restriction: A student may receive credit for only one of FREN 1321 or FREN 1387.

FREN 1322 Beginning French II [3-0]  
(Texas Common Course Number is FREN 1312.)  
fall, spring  
A continuation of FREN 1321. Credit Restriction: A student may receive credit for only one of FREN 1322 or FREN 1388. Prerequisite: FREN 1321.

FREN 2321 Intermediate French I [3-0]  
(Texas Common Course Number is FREN 2311.)  
as scheduled  
Grammar review, conversation and writing practice based on selected literary and cultural readings. An emphasis on usage of different modes and tenses, as well as complex syntax. Prerequisite: FREN 1322.

FREN 2322 Intermediate French II [3-0]  
(Texas Common Course Number is FREN 2312.)  
as scheduled  
Grammar review, conversation and writing practice based on selected literary and cultural readings. An emphasis on usage of different modes and tenses, as well as complex syntax. Prerequisite: FREN 2321.

FREN 3321 French Composition I [3-0]  
as scheduled  
Practice in writing expository, narrative and descriptive

prose. Prerequisite: FREN 2322.

FREN 3322 French Composition II [3-0]  
as scheduled  
Practice in writing critical appreciations of selected literary works. Prerequisite: FREN 3321.

FREN 3323 Business French [3-0]  
as scheduled  
French for international business majors. A French practice in all areas: procedures, job and business cultures from French and Francophone countries. Prerequisite: FREN 3321.

FREN 4120 Practicum on Location [3-0]  
as scheduled  
Special programs designed by UTPA French faculty and taught in France or a French-speaking country. The course will familiarize students with specific aspects of the host country's culture. Students will be immersed in a French-speaking environment and will partake in numerous activities such as lectures, visits to museums and monuments, etc., to strengthen their language skills and develop their knowledge of Francophone culture. The course may be repeated if the location and topic changes. Prerequisite: Four semesters of French or the equivalent.

FREN 4321 French Literature Through Genres [3-0]  
fall, spring, summer  
This course introduces literature through literary genres (drama, poetry, novels or essays). Students will have the opportunity to study in depth the evolution of a genre as well as the literary devices used by writers in the production of that genre. This course can be repeated according to the genre for study. Course taught in French. Prerequisite: FREN 3321 or equivalent.

FREN 4322 Survey of French Literature [3-0]  
fall, spring, summer  
This course covers a survey of French literature from the medieval period until the Enlightenment. It introduces students to the foundations of French and European thought and literatures. Course taught in French. Cannot be repeated. Prerequisite: FREN 3321 or equivalent.

FREN 4324 French Civilization I [3-0]  
as scheduled  
A study of French culture and civilization from the Roman conquest of Gaul by Julius Caesar to the French Revolution of 1789. Prerequisite: FREN 3321.

FREN 4325 French Civilization II [3-0]  
as scheduled  
A study of French culture and civilization from the French Revolution of 1789 to the present. Prerequisite: FREN 3321.

FREN 4326 Survey of French Literature II [3-0]  
fall, spring, summer  
This course offers an overview of French Literature. It

introduces students to some masterpieces of the 19th, 20th and 21st centuries. Course taught in French. Cannot be repeated. Prerequisite: FREN 3321 or equivalent.

FREN 4331 Theater Practice in French [3-0]  
fall, spring, summer

This course will cover a brief history of French and European theater from its classic origins in today's international trends. Students will read several excerpts of French theater and discuss different possibilities of interpretations and performance techniques (phonetics, tongue twisters, breathing techniques, etc.) This course familiarizes students with an important cultural component of French and European tradition and increases their listening and speaking skills to a nearer native speaking fluency. Students will also stage, perform and present their work. Prerequisite: FREN 2322 or equivalent.

FREN 4339 Special Topics [3-0]  
as scheduled

Special topics from the field of French language and literature. Prerequisite: FREN 3321.

## Geography

GEOG 2313 Principles of Physical Geography [3-0]  
fall, spring, summer

An introduction to physical geography with emphasis on weather, ocean currents and climates. Soils and vegetation types and distributions are also studied. Can be counted in the supporting areas of elementary education curriculum.

## Geology

GEOL 1401 Physical Geology [3-3]  
(Texas Common Course Number is GEOL 1403.)

fall, spring, summer

Involves a comprehensive description of materials composing the earth and deals with the classification and analysis of geologic agents responsible for the origin, structure and evolution of the earth's crust. \$4 laboratory fee.

GEOL 1402 Historical Geology [3-3]  
(Texas Common Course Number is GEOL 1404.)

fall, spring, summer

A course dealing with the geological history of the earth and its inhabitants as revealed by the fossil record with emphasis on North America. \$4 laboratory fee. Prerequisite: GEOL 1401

GEOL 3308 Introduction to Geographic Information Systems [3-3]

as scheduled

PREPARE ▲ DISCOVER ▲ TRANSFORM ▲

A study of the input, management, manipulation and output of georeferenced information using digital computers. Methods of layering geologic, geographic, meteorologic, electromagnetic, biologic and political knowledge will be presented. Computer data structures including relational databases will be examined. The spatial analysis potential of a GIS will be compared with traditional manual (cartographic) methods.

GEOL 3310 Hydrologic Systems [3-0]  
as scheduled

This course is an introduction to surface and subsurface hydrologic systems which emphasizes physical hydrological processes. The course focuses on surface and near surface processes and introduces deeper, groundwater-hydrology. A broad range of specific topics is covered ó e.g., the hydrologic cycle, watershed hydrology, runoff-rainfall relationship, erosion and sediment transport, occurrence and movement of groundwater and aquifer characteristics. The hydrological systems will be explained by using examples from the Rio Grande Valley. Prerequisite: GEOL 1401.

GEOL 3401 Geomorphology [3-3]  
as scheduled

A course designed for students interested in surface geological processes. An analysis of land forms of the Earth and processes by which they are formed. Emphasis will be placed on mapping and interpretation of local geomorphology. Also, comparative studies of lunar-Earth and Mars-Earth will be covered. Field trips. Prerequisite: GEOL 1401. \$4 Laboratory fee.

GEOL 3403 Oceanography [3-3]  
as scheduled

An introduction to physical oceanography designed for geology minors, biology majors and earth science teachers. A study of the origin, motions and the physical and chemical properties of marine waters. Field trips. Prerequisite: GEOL 1401 or advanced standing in any of the related sciences or consent of instructor. \$4 laboratory fee.

GEOL 3404 Stratigraphy-Sedimentation [3-3]  
as scheduled

A study of sedimentary processes and principles of stratigraphy, followed by a survey of stratified rocks of North America, their correlation, stratigraphic relations and guide fossils. Field trips. Prerequisites: GEOL 1401 and GEOL 1402. \$4 laboratory fee.

GEOL 4301 Exploration Geophysics [3-0]  
as scheduled

An introductory course on seismic refraction and reflection imaging of the subsurface of the earth, including methods of data acquisition, processing and interpretation in two and three dimensions. Designed for students with basic geology and/or engineering backgrounds. Prerequisites: PHYS 1401 or equivalent and GEOL 1401 or equivalent. \$4 laboratory fee. Course is cross-listed as PHYS 4311 and GEOP 4301.

GEOL 4302 Environmental Geology [3-0]  
as scheduled

This course explores the human-planet relationship how Earth processes influence human lives, and how human actions, in turn, alter the interactions of Earth systems. Hazardous geologic processes, use and care of energy resources and the human impacts on the environment are the focus of this course.

GEOL 4309 Undergraduate Research in Geoscience [3-0]

Independent work in geosciences and/or environmental geosciences under the direction of a faculty member. Open only to students who have completed at least eight hours in geology or by approval of the instructor.

GEOL 4408 Applications of Geographic Information Systems [3-3]

as scheduled

New ways of using georeferenced data. Methods of integrating information from multiple sources will be used to analyze the interdependencies of both human and physical systems in a rapidly changing rural to urban environment. Examples will be given of uses in evaluating resource capability units, analyzing hazardous radiation areas, mineral exploration, land management, flood prediction and control, earthquake prediction and hurricane preparation. Attention will be given to problems of data quality, errors, accuracy and logical consistency. Prerequisite: GEOL 3408.

## Geophysics

GEOP 4301 Exploration Geophysics I [3-0]  
spring, odd year

An introductory course on seismic refraction and reflection imaging of the subsurface of the Earth, including methods of data acquisition, processing and interpretation in two and three dimensions. Designed for students with basic geology and/or engineering backgrounds. Prerequisites: PHYS 1401 or equivalent and GEOL 1401 or equivalent. \$4 laboratory fee. Course is cross listed as PHYS 4311.

## German

GERM 1331 Beginning German I [3-0]  
fall, spring

A study of the essentials of German grammar, pronunciation, elementary conversation and prose reading.

GERM 1332 Beginning German II [3-0]  
fall, spring

A continuation of German 1331, focusing on German grammar, pronunciation, elementary conversation and prose reading. Prerequisite: GERM 1331.

GERM 2331 Intermediate German I [3-0]  
fall, spring

A study of more complex patterns of German grammar and prose reading to facilitate written and oral communications. Prerequisite: GERM 1332.

GERM 2332 Intermediate German II [3-0]  
fall, spring

A study of more complex patterns of German grammar and prose reading to facilitate written and oral communication. Prerequisite: GERM 2331.

## Global Security Studies

GSST 3300 Introduction to Global Security Studies [3-0]  
as scheduled

This course examines the origins of security and intelligence studies as an academic discipline and in relationship to a democratic society. The impact of security and intelligence on policy, controversies concerning security and intelligence, and the need for reform will also be covered. Prerequisite(s): None

GSST 3310 Interdisciplinary Research in Business and Science/Engineering [3-0]

as scheduled

This course covers data mining, database, and open source research techniques applicable in business, science, and engineering. Students will consider dilemmas that arise in formulating business and/or science-based security policy, such as transparency, ethics, and conflicts of interest. Prerequisite(s): GSST 3300

GSST 3320 Interdisciplinary Research in Social Sciences and Health Sciences [3-0]

as scheduled

This course provides basic knowledge and skills needed to undertake research-based problem solving in social and health sciences. It covers basic social and behavioral research concepts with a focus on electronic research using the Internet, GIS, and other electronic media. Students will also consider research ethics, transparency, and conflicts of interest. Prerequisite(s): GSST 3300

GSST 3397 Internship in Global Security Studies [0-0-3]

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 an undergraduate faculty member. Periodic seminars and supervisor-intern consultations will be held with a required final administrative report. Prerequisite: Consent of instructor and faculty advisor.

GSST 3398 Independent Study [3-0]  
as scheduled

Individualized study and research in a substantive area 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.

GSST 4300 Practicum in Global Security [3-0]  
as scheduled

This course integrates the broad and specialty knowledge covered in the interdisciplinary courses and the preceding core courses by working in teams to an applied case problem involving a current security issue. The course culminates in an event attended by invited guests from the faculty administration and working professionals, at which each group will present case outcomes. Prerequisite: GSST 3310 or GSST 3320.

## History

HIST 2313 American Heritage I [3-0]  
(Texas Common Course Number is HIST 1301.)  
fall, spring, summer

An integration of social, political and economic history of the United States with attention directed to geography and its influences. The approach is by problems that move chronologically from the earliest colonial period through the Civil War. Open to freshmen who enter with a credit in American history from high school. Credit Restriction: Credit may be received in only one of HIST 2313 and HIST 2387.

HIST 2314 American Heritage II [3-0]  
(Texas Common Course Number is HIST 1302.)  
fall, spring, summer

An integration of social, economic and political history of the United States with attention to geographical influences. The approach is by problems that move chronologically from Reconstruction to the present. Open to freshmen who enter with a credit in American history from high school. Credit Restriction: Credit may be received in only one of HIST 2314 and HIST 2388.

HIST 2331 Civilization Through  
the Centuries [3-0]  
fall, spring, summer

This course will introduce the students to the major developments in the history of the world from early man to the Congress of Vienna in 1815. Emphasis is placed on the political, social and cultural achievements of the civilizations of Asia, Africa, Europe, and the Americas, as well as the contacts among them through trade diffusion, conquest, and migration.

HIST 2332 Civilization Through  
the Centuries [3-0]

fall, spring, summer

A continuation of HIST 2331, this course will cover world history from 1815 to the present. Emphasis is placed on the industrial revolution, imperialism, world conflict, the rise and fall of communism, and the post-colonial world. Historical context will be provided for current issues such as globalism, nationalism, and the role of culture.

HIST 2387 American Heritage I [3-0]  
(Honors Plan)

fall

An integration of social, political and economic history of the United States with attention directed to geography and its influences. The approach is by problems which move chronologically from the earliest colonial period through the Civil War. Credit Restriction: Credit may be received in only one of HIST 2313 and HIST 2387. Prerequisite: Admission to Honors Studies or by invitation.

HIST 2388 American Heritage II [3-0]  
(Honors Plan)

spring

An integration of social, economic and political history of the United States with attention to the geographical influences. The approach is by problems that move chronologically from Reconstruction to the present. Credit Restriction: Credit may be received in only one of HIST 2314 and HIST 2388. Prerequisite: Admission to Honors Studies or by invitation.

HIST 3301 The History of Ideas [3-0]  
as scheduled

A study of major beliefs and patterns of thought in Western culture, emphasizing the development of the arts and sciences, social thought and religion. Prerequisite: Six hours of history.

HIST 3302 World History Studies [3-0]  
fall, spring, summer

A comprehensive survey of social, economic, political, cultural and geographical factors influencing the course of world history. Emphasis will be on thematic and content material. Prerequisite: Six hours of history with HIST 2331 recommended.

HIST 3303 Geography and the  
Environment in History [3-0]

as scheduled

This class examines the effects of the environment and geography on history. The course will focus on how humanity has reacted to the environment and influenced ecosystems, and how different cultures have interacted with similar environments. The course will also examine trade routes, the effects of disease, the connections between resources and the rise of civilizations and empires. Prerequisite: Six hours of history.

HIST 3310 Atlantic World to 1763 [3-0]  
fall, spring, summer

This course situates British colonization in a circum-Atlantic context that allows for comparison and contrast with Spanish, French, Dutch, and Portuguese colonies.

Key topics covered will include the European background to colonization, motives for Atlantic exploration and development, relations with non-European peoples, the rise of slavery and the plantation complex, Atlantic trading networks, and conflict and warfare in an Atlantic context. The course ends with the Seven Years War and its consequences for Atlantic America. Prerequisite: HIST 3332 or instructor permission.

HIST 3313 Atlantic America, 1763- 1815 [3-0]  
as scheduled

The course deals with relations between the British New World colonies and then the United States and the Atlantic trading world from the Treaty of Paris in 1763 through the Treaty of Ghent in 1814 and its direct aftermath. A key focus will be on the development of the Independence movement in the British mainland colonies, the War for Independence, and then the formation of the United States as an independent nation. Prerequisites: HIST 3332 or instructor permission.

HIST 3324 Rise of the American Nation,  
1814-1850 [3-0]  
as scheduled

A study of the early years of the American nation from the establishing of American economic independence following the War of 1812 through the Great Transformation of American society in the form of initial industrialization, urbanization, the transportation revolution, and increasing participatory democracy, to the rise of Manifest Destiny and the attainment of continental mastery. Prerequisite: HIST 3334 or instructor permission.

HIST 3330 A General Survey of  
the History of Texas [3-0]  
as scheduled

A survey of the history of Texas from indigenous period to present. Previous course number: HIST 2333; a student may receive credit for only one course. Prerequisite: Six hours of history.

HIST 3332 Historiography  
and Methodology [3-0]  
as scheduled

This course will acquaint students with the various schools of history, famous scholars and common debates in the field of history. The class will also provide instruction in the various tools and research methods that are utilized by historians. Prerequisite: Nine hours of history, including either 2331 or 2332.

HIST 3333 Colonial Mexico, Central  
and South America [3-0]  
as scheduled

A study of the establishment of Spanish dominion; geography and natural resources; institutional and social development; cultural aspects and contribution. Prerequisite: Six hours of history.

HIST 3334 Pre-Conquest Mexico and Central  
288

American  
Prior to Spanish Conquest [3-0]

spring  
In this course, students will study the environmental, political, social, religious, and cultural history of the indigenous peoples of Mexican and Central America from the emergence of urban civilization at San Lorenzo to the moment when the first Europeans arrive on the mainland. Prerequisite: None.

HIST 3335 History of Spain [3-0]  
as scheduled

The historical development of the Spanish nation from earliest times to the present. Emphasis will be given to the evolution of the political, economic and social institutions that are important to the conquest and colonization of the Americas. Prerequisite: Six hours of history.

HIST 3337 Latin American Women  
in the Modern Era [3-0]  
spring

In this course, students will examine the changes that have taken place in the conceptualization, gendered roles, and overall status of women in Latin American societies from 1910 to the present. Major focuses will include the heritage of gender within both Hispanic and indigenous cultural milieus, the factors contributing to change in traditional gender roles during the early and middle twentieth centuries, and the changes still in progress. In addition to texts, writings of major women authors as Isabel Allende and Elena Poniatowska will be assigned. Prerequisite: None.

HIST 3341 History of England I to 1686 [3-0]  
as scheduled

English history from earliest times through the period of the Stuart kings. Emphasis will be given to the factors that have influenced the development of British and American institutions. Prerequisite: Six hours of history.

HIST 3342 History of England II after 1686 [3-0]  
as scheduled

The period of the Glorious Revolution to the British Empire and commonwealth of nations. Prerequisite: Six hours of history.

HIST 3343 Era of Sectional Conflict  
in U.S. History, 1848- 1877 [3-0]  
fall, spring, summer

United States history from 1848 to 1877 with emphasis upon the development of sectionalism, Southern nationalism, the breakdown of American political parties, Civil War and Reconstruction, and the further extension of industrialization. Prerequisites: HIST 3334 or instructor permission.

HIST 3350 The American  
Military Experience [3-0]  
as scheduled

The American military experience will be examined from the colonial period to the present. The course will examine not



only the operational history of the American military but also the causes and consequences of war and the role of the military in American society. Prerequisite: Six hours of history.

HIST 3353 History of the American Presidency,  
1789- Present [3-0]

fall, spring, summer

This course will examine the evolution of the presidency and executive power from Washington's inauguration until the present. In addition to surveying the evolution of presidential authority, it will also examine how certain figures have reshaped executive power; how the media has transformed the role of the presidency and presidential accountability; and how information technology has altered the relationship between the president and her/his constituents. Individual instructors may choose to focus a portion of the course on one or more individual presidents while retaining an overall comparative, analytical element. Prerequisites: HIST 2313; HIST 2314.

HIST 3355 American Legal History [3-0]

fall, spring, summer

Relation of law to main currents in political, social, and economic thought in the United States from the establishment of colonial legislatures to the present; appraisal of the social function of constitution-making processes, the legislature, the courts, the bar, and the executive branch in U.S. society; and exploration of the interactions between common and statute law and exceptional constitutional issues like those relating to Native Americans. Prerequisites: HIST 2313; HIST 2314.

HIST 3360 History of American  
Family & Childhood [3-0]

fall, spring, summer

A synthesis of American history focusing on the changing role of family and the transitional stages of childhood. This class will discuss immigration, family economy and consumption, and the dynamic forms of social welfare that grew in response to family and childhood need. Additionally students will participate in learning about personal family history and how their own family may confirm or diverge from trends. Material culture, race, and gender are vital aspects of this course. Major events in American history and in the life cycle of families, such as but not limited to birth, death, marriage, and divorce will all be discussed in their historical contexts. Prerequisites: HIST 2313; HIST 2314.

HIST 3367 The U.S. as a World Power [3-0]

fall, spring, summer

This course is designed for students seeking a certification in teaching. It focuses on the diplomatic history of the United States from the rise of imperialism through two World wars and the Cold War. America's role in international conflicts and the relationship between individuals and specific events and will be a major focus of the class. The history of trade and cultural exchanges during this period will also receive attention. Prerequisite: HIST 2313 and 2314

HIST 3370 History of American  
Religious Traditions [3-0]

fall, spring, summer

This course traces the diversity of religious traditions in North America from the colonial era to the present. Specific topics will include Native American religious, immigrant religious traditions, new and syncretic traditions in the United States, American secularization, and political and constitutional issues relating to religions. Emphasis will be on the history of religious development and not on specific theologies. Prerequisites: HIST 2313; HIST 2314.

HIST 3373 Mexican-American Heritage [3-0]  
as scheduled

An interpretation of the historical heritage of the Mexican-American in the United States. Prerequisite: Six hours of history.

HIST 3375 Women in History Topics [3-0]  
as scheduled

This course will introduce students to the growing and diverse field of women's and gender history. It will examine the experiences, roles and contributions of women in politics, economics, labor and culture. The time period, the focus and the geographical area will change according to the instructor. Suggested topics include Mexican-American-Chicana history and Latina history.

HIST 3377 Latin American Women  
the Modern Era [3-0]

as scheduled

In this course, students will examine the changes that have taken place in the conceptualization, gendered roles, and overall status of women in Latin American societies from 1910 to the present. Major focuses will include the heritage of gender within both Hispanic and Indigenous cultural milieus, the factors contributing to changes in traditional roles during the early and middle twentieth centuries, and the changes still in progress. In addition to traditional texts, the course would include work by major women authors such as Isabel Allende and Elena Poniatowska. May be repeated twice for credit.

HIST 3378 Women in Colonial  
Latin America [3-0]

as scheduled

This course will introduce key texts in the history of women in Latin America from pre-conquest times to the independence period. The aim of this course is to study the presence and participation of women in history and to provide the tools for analyzing primary sources, posing important questions in the field and critically thinking about historiographical issues. The focus and geographical area will change according to the specialty of the instructor. May be repeated twice for credit.

HIST 3380 Early Middle Eastern History [3-0]  
fall, spring, summer

This course concentrates on the history of the Middle East from the 7th century to 1789. Topics covered include the basic tenets of Islam and its spread up to the 19th century including the Muslim kingdoms of Spain and Africa and the Umayyad, Abbasid, and Ottoman Empires. Islamic approaches to

modern concept such as human rights, nationalism, and democracy will also be covered. Prerequisite: None

HIST 3381 History of American West [3-0]  
fall, spring, summer

This course is an interdisciplinary survey of racial, ethnic, class and gender relations in American Western history. Questions examined include: How have different groups shaped the historical development of the West? What role has nations of race, ethnicity, class and gender played in this development? How does contemporary scholarship challenge idealized perceptions of the West? What has been the role of the media-journalism, booster sheets, literature, art, and film-in shaping past and present views of the West? Prerequisites: HIST 2313; HIST 2314.

HIST 3385 Gender in American West [3-0]  
fall, spring, summer

This course is an interdisciplinary survey of women and gender relations in American Western history. The course focuses on the experiences of both women and men in the American West from the initial contact of Europeans with Native Americans to the twentieth century. We will read primary and secondary materials related to the subject of gender construction in this highly contested region. A number of key themes will be explored including gender ideologies, race, class, multi-cultural interaction, ethnicities, work roles and community building, politics, moral reform, and oral history. Prerequisite: HIST 2313; HIST 2314.

HIST 4303 The Emergence of  
Modern America, 1877- 1929 [3-0]  
as scheduled

A detailed study of the process and effects of industrialization, immigration, and social reforms during the Progressive Era. The course will highlight government policy toward business and society during this pivotal period in American history, ending with the advent of mass consumerism in the 1920s. Prerequisite: HIST 2313; HIST 2314

HIST 4313 Twentieth Century America  
1917 to the Present [3-0]  
as scheduled

A study of the history of the United States from World War I to the present with emphasis on domestic and foreign affairs and in their relationship to and effect on each other. Prerequisite: Six hours of history.

HIST 4322 The Spanish Southwest to 1821 [3-0]  
as scheduled

A study of the northward colonization of Mexico with emphasis on institutions and the settlement of the interior provinces of Texas, New Mexico, Arizona and California. Prerequisite: Six hours of history.

HIST 4325 The American Southwest  
After 1821 [3-0]  
as scheduled

The American penetration of Texas and the war with

Mexico; subjugation of the Indians; extension of mining, railroad, cattle industry and farming across the Southwest; and the transition from raw frontier to modern states of the Southwest. Prerequisite: Six hours of history.

HIST 4326 Ancient Greek History [3-0]  
fall, spring, summer

This course will explore the major political, social, economic, and cultural developments of Ancient Greece up to its absorption into the Roman Empire. Emphasis will be placed on the differences and similarities between the Archaic, Classical and Hellenistic Ages. Using primary documents, the class will develop reasonable criteria for the acceptability of this evidence and explore alternative theories used to explain this period. Prerequisite: None

HIST 4327 Ancient Roman History [3-0]  
fall, spring, summer

This course will explore the major political, social, economic, and cultural developments of Republican and Imperial Rome. Using primary documents, the class will develop reasonable criteria for the acceptability of this evidence and explore alternative theories used to explain the history of this empire. Emphasis will be placed on the reinterpretations of the "Fall" of Rome. Prerequisite: None

HIST 4328 Medieval History [3-0]  
fall, spring, summer

This course will introduce students to the major developments in European History from the late antique period of Rome until 1300. Emphasis is placed on key political, social, economic, and cultural events of medieval Europe such as the rise of the Carolingian Empire, external attacks, feudalism and manorialism, the Crusades, and the rise of European states. The class will also cover the importance of contacts with the non-European world through trade, migration, and diffusion. Prerequisite: None

HIST 4330 Black History and Thought  
since 1863 [3-0]  
fall, spring, summer

This course focuses on black history and thought from Emancipation through the conservative backflash of the 1970s. It addresses issues such as suffrage, racist and sexual violence, Jim Crow, black images, science and medicine, resistance, class division, and cultural expression. Although focusing on social history, the course interweaves the intellectual thought of black thinkers from the nineteenth and twentieth century. Finally, it stresses geography, comparing black experiences in rural and urban areas, and throughout the country. Prerequisites: HIST 2314; HIST 2313.

HIST 4333 Race & Ethnicity  
in American History [3-0]  
fall, spring, summer

This course examines racial and ethnic formation and competition in the U.S. from the mid-nineteenth century until the 1960s, focusing on overlapping Asian American, black, white, Hispanic, and Native histories. The course

addresses issues such as scientific racism, ethnic cooperation and conflict, inter-racial sexuality, labor competition, immigration policies, popular images and representations, and grassroots and organized resistance. In addition, it focuses on geography, examining distinctions between urban and rural contexts and across regions. Prerequisites: HIST 2313; HIST 2314

HIST 4335 History of the New South since 1877 [3-0]

fall, spring, summer

This course investigates the competing and contradictory meanings of the "New South" - a concept coined by southern boosters in the 1800s to describe efforts to develop an industrial economy, and one subsequently applied to successive periods of southern history. Students will grapple with the major ideas, leaders, events, and social movements which shaped this period. Specifically, they will familiarize themselves with such issues as sharecropping industrialization, class conflict, racial violence, political movements, Jim Crow, reform, urbanization, and rural-urban conflict. Prerequisites: HIST 2313; HIST 2314.

HIST 4343 Era of Sectional Conflict 1840-1877 [3-0]

as scheduled

United States history from 1840 to 1877 with emphasis upon the development of sectionalism, Southern nationalism, the breakdown of American political parties, Civil War and Reconstruction. Prerequisite: Six hours of history.

HIST 4345 Mexico's First Century as an Independent Republic [3-0]

as scheduled

A study of the political, social and economic development of Mexico from the independence movement to the Revolution of 1910. A study of the problems of Mexico and the various distinct eras of its first century as a republic. Prerequisite: Six hours of history.

HIST 4352 Brazil After Independence [3-0]

as scheduled

A study of Brazil as an empire and a republic with emphasis on the social, geographic and political factors that make it a unique nation in the Western hemisphere. Prerequisite: Six hours of history.

HIST 4353 History of Mexican Culture [3-0]

as scheduled

A study of the Mexican people, including development of their social institutions, thinking, concepts, attitudes, values, reactions and sensitivities. Prerequisite: Six hours of history.

HIST 4354 Contemporary Mexico [3-0]

as scheduled

A study of the nature and impact of the social, political and economic transformations since the revolutionary epoch of 1910-1917; greatest emphasis on the contemporary factors that have made Mexico's experience unique. Prerequisite: Six hours of history.

HIST 4355 Spanish South America Since Independence [3-0]

as scheduled

The historical development of the major Hispanic South American republics; general trends in their social, economic and political growth. Prerequisite: Six hours of history with HIST 3333 recommended.

HIST 4360 Public Health Americas [3-0]

fall, spring, summer

This course increases students' understanding of health and society within the Americas. The course examines the social, cultural, and institutional history of the construction of disease, medical practice, public health, and policy in the Americas in a comparative framework with the United States. As an upper-level history class, students will gain and practice skills in writing, reading, and critical thinking. Prerequisite: None

HIST 4361 Mexican American Civil Rights [3-0]

fall, spring, summer

This course will examine the history of Mexican-American civil rights from the Wagner Act (1935) to the Civil Rights Act (1964). Students will evaluate the institutions, organizations, and people who fought for the equality and integration of Mexican Americans in the American Southwest. We will assess the different roles that these historical actors played in the struggle for citizenship rights against the larger backdrop of the Great Depression, World War II and Cold War eras. Prerequisite: None

HIST 4363 U.S.-Latin American Relations [3-0]

as scheduled

The development of a distinctive system of international relations ó economic, cultural and political ó between the nations of Latin America and the United States. Prerequisite: Six hours of history.

HIST 4370 The Renaissance and the Reformation, 1300-1650 [3-0]

as scheduled

A study of the political, social and cultural developments of Western Europe from the decline of the medieval system, through the age of the new monarchies, with emphasis on France, Germany and Italy. Prerequisites: Six hours of history with HIST 2331 recommended.

HIST 4371 Russia Since 1905 [3-0]

as scheduled

Russia from the precursors of the Revolution through the Revolutions of 1905 and 1917 and the development of the Soviet regime to current trends. Prerequisites: Six hours of history with HIST 2332 recommended.

HIST 4374 The Caribbean and Central America [3-0]

as scheduled

A study of the 19th century efforts of these nations to

emerge as separate entities and an evaluation of their 20th century experiences. Prerequisite: Six hours of history with HIST 3333 recommended.

HIST 4375 Absolutism and Enlightenment in Europe, 1650-1789 [3-0]

as scheduled

Traces the development of the absolutist state, benevolent despotism and the intellectual and scientific trends of the Enlightenment. Prerequisite: Six hours of history with HIST 2332 recommended.

HIST 4376 Revolutionary Europe 1789-1850 [3-0]  
as scheduled

A study of Europe of this period with emphasis on the growth of democratic institutions from the beginning of the French Revolution through the Revolution of 1848. Prerequisite: Six hours of history with HIST 2332 recommended.

HIST 4377 Chicano Movement [3-0]  
fall, spring, summer

This course will trace the history of Chicano student activism from the 1960s antiwar movement to the 1970s and 1980s movements to create Chicano studies majors and departments in universities and colleges. Students will examine the ideas and strategies adopted by grass-roots activists and bureaucratic leaders in their struggles to integrate the Chicano community into American society and politics. Prerequisite: None.

HIST 4380 Modern Middle Eastern History [3-0]  
fall, spring, summer

This course concentrates on the history of the Middle East from 1789 to present. The course focuses on the historical origins of modern socio-political issues in the Middle East such as the Arab-Israeli Conflict, the "Kurdish Problem", oil and water issues, nationalism, the rise of political Islam and other regional issues. Prerequisites: None

HIST 4381 History of the Cold War [3-0]  
fall, spring, summer

This course will focus on the global struggle between super powers and nations drawn into the conflict from 1945-1991. Ideological differences, proxy wars, economic relations, and attempts to negotiate a peaceful resolutions to conflicts will all be addressed in the class. Students will be exposed to these issues from a multicultural and multinational perspective. Prerequisites: None.

HIST 4383 Europe's Age of Imperialism, 1850-1919 [3-0]

as scheduled

A study of European history through the period of growing nationalism and imperialism leading to World War I. Prerequisite: Six hours of history with HIST 2332 recommended.

HIST 4393 Contemporary Europe,

1919 to Present [3-0]

as scheduled

A study of the causes of World War II, its resulting problems and current trends. Prerequisite: Six hours of history with HIST 2332 recommended.

HIST 4395 Special Topics in History Studies [3-0]  
fall, spring, summer

A study of selected topics in history, including comparative history, philosophies of history, and regions outside of Europe and the Americas. Topics are varied according to availability of faculty and student interest. Course can be repeated once for credit as topic changes. Prerequisite: None

HIST 4396 Special Topics in European History [3-0]

as scheduled

A study of selected topics in European history. Topics are varied according to availability of faculty and student interest. Course can be repeated once for credit as topics change. Prerequisites: Nine hours of history, including either 2331 or 2332.

HIST 4397 Special Topics in U.S. History [3-0]  
as scheduled

A study of selected topics in the history of the United States. Topics are varied according to availability of faculty and student interest. Course can be repeated once for credit as topics change. Prerequisites: Nine hours of history, including either 2331 or 2332.

HIST 4398 Special Topics in Latin American History [3-0]

as scheduled

A study of selected topics in Latin American history. Topics are varied according to availability of faculty and student interest. Course can be repeated once for credit as topics change. Prerequisite: Nine hours of history, including either 2331 or 2332.

## Health

HLTH 1352 Community and Environmental Health [3-0]

as scheduled

Basic community health waste disposal, safe water, food and drug control and the improvement of community health.

HLTH 1354 Safety and First Aid [3-0]  
as scheduled

Basic knowledge for safe and effective living. The essential aspects of home, work, motor vehicle and public safety. Includes both theoretical and practical aspects of emergency care. Standard First Aid and Personal Safety and Cardiopulmonary Resuscitation (CPR) certification upon completion of specific requirements. Equivalent Course: KIN 1354; a student may receive credit for only one course.

HLTH 2352 Personal Health and Wellness [3-0]  
as scheduled  
A survey of factors involved in human physical and psychological wellness. Disorders arising from mutagenic, teratogenic infections, environment and lifestyle behaviors will be studied. May not be used to satisfy Health Secondary Option II Teacher Certification.

HLTH 2373 Growth, Development and Fitness [3-0]  
as scheduled  
A study of the growth process and systemic development of the human organism. The concept of physical fitness is analyzed and related to organismic function and well being.

HLTH 3371 Health Problems in Alcohol, Tobacco and Narcotics [3-0]  
fall  
This course examines the psychological, physiological and social effects of substance use, abuse and dependency. Special emphasis is placed on prevention with in-depth study of the contribution of intervention models and informed decision-making skills.

HLTH 3372 Nutrition and Health [3-0]  
spring  
Analysis of food constituents relating to human nutritive needs and sources throughout the life span will be studied. Its emphasis will be on prevention of nutrition-related health problems through study of health-promoting dietary and lifestyle practices, contributing risk factors and mechanism of development.

HLTH 3373 Human Sexuality [3-0]  
as scheduled  
Adjustment of the individual to life in the social group with emphasis upon problems occurring in mental and emotional health, aging, family living and human sexuality.

HLTH 3374 Chronic and Degenerative Disease [3-0]  
as scheduled  
A study of chronic and degenerative disease with respect to the nature, source, incidence, control and treatment of diseases such as cancer, cardiovascular anomalies, neurological disorders, mental retardation and genetic disorders. Emphasis is upon providing sufficient and usable information that will provide the basis for responsible action in matters of personal health.

HLTH 3375 Consumer Health [3-0]  
as scheduled  
Selection, evaluation and understanding of health information, medical services, health products and advertising and sociocultural factors in consumer health protection.

HLTH 4350 Organization of the Health Program [3-0]  
as scheduled  
The organization and management of the health program

in school, community and clinical settings with special emphasis on program phases, responsibilities, evaluation and functional relationships with local, state and federal agencies. Prerequisite: 15 hours of health.

HLTH 4353 Principles of Public Health [3-0]  
as scheduled  
Examination of the role and practice of official or voluntary health agencies. Content includes study of health needs, assessment, models for health promotion, program evaluation, basic issues and management/funding methods achieved. University classroom and field-based experiences.

HLTH 4357 Health Seminar [3-0]  
summer, odd years  
For teachers, nurses, principals, superintendents and community leaders to gain perspective and insight into essential cooperative efforts of home, school and community to meet the growing health needs of our society.

HLTH 4358 Current Health Readings and Reported Research [3-0]  
as scheduled  
Research and analysis of the latest concepts and findings relating to the school health program. This will be conducted through review of the literature, written reports and independent study in a health-substantive area.

## Honors

HONR 2387 Humanities I [3-0]  
An interdisciplinary course that emphasizes cultural roots from ancient Greece through the Middle Ages. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western civilization framework.

HONR 2388 Humanities II [3-0]  
An interdisciplinary course that emphasizes cultural roots from the Renaissance to the present. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western civilization framework.

HONR 3187 Problems in Independent Study [3-0]  
This course is an introduction to basic problems encountered in independent study. It aids the student in choosing a topic for independent study, in setting up objectives for the study and preparing a research proposal or project.

HONR 3387 Independent Study [3-0]  
Supervised independent research in student's topic, with periodic meetings for coordination, instruction in methodology and discussion.

HONR 3388 Study Abroad Independent Study [3-0]  
fall, spring, summer

This course promotes opportunities for Honors Program students to develop attendance of and participation in study abroad as well as service learning in order to promote interdisciplinary learning, contextual insight, cultural appreciation, and critical thinking skills for outstanding future contributions to society and the world. Students taking this course will arrange a topic and appropriate academic work with a faculty member and/or the Director of the Honors Program. Students may repeat once for credit.

HONR 4387 Independent Study [3-0]  
Supervised completion of research and writing of thesis or creative project, with periodic meetings for coordination, instruction in methodology and discussion.

HONR 4388 Study Abroad Independent Study [3-0]  
fall, spring, summer

This course promotes opportunities for Honors Program students to develop attendance of and participation in study abroad as well as service learning in order to promote interdisciplinary learning, contextual insight, cultural appreciation, and critical thinking skills for outstanding future contributions to society and the world. Students taking this course will arrange a topic and appropriate academic work with a faculty member and/or the Director of the Honors Program. Students may repeat once for credit.

## Departmental Courses, Honors

(See Course Listings for course descriptions.)

Biology:	BIOL 1487 BIOL 1488	General Biology General Biology
Communication:	COMM 1387 COMM 2387	Speech Communication Theatre Appreciation
Economics:	ECO 1387	Introduction to  Economics
English:	ENG 1387  ENG 1388 ENG 2387  ENG 2388	Rhetoric and  Composition Rhetoric and Literature Readings in World Literature Readings in World  Literature
French:	FREN 1387 FREN 1388	Beginning French Beginning French
History:	HIST 2387 HIST 2388	American Heritage I American Heritage II

Mathematics:	MATH 2387 MATH 1487	Problems and Statistics Calculus
Philosophy:	PHIL 1387  PHIL 1388	Introduction to  Philosophy Introduction to Logic
Political Science:	POLS 2387  POLS 2388	U.S. and Texas Government and Politics U.S. and Texas Government and  Politics
Sociology:	SOCI 1387	Principles of Sociology
Spanish:	SPAN 1387 SPAN 1388	Beginning Spanish Beginning Spanish

## Health-Related Programs

### ◆ Interdisciplinary Courses

HRP 2303 Medical Terminology [3-0]  
fall, spring  
This course is designed to introduce the student to analysis techniques and to correct spelling and pronunciation of medical terms. The student will have the opportunity to learn a medical vocabulary, develop skills in recognizing medical terms by analyzing their elements and relating them to the corresponding anatomical site.

## International Business

INTB 3300 Internship in International Business [0-0-3]  
fall, spring  
This internship is designed to give students an opportunity to gain real-world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. Prerequisites: Upper-division standing and

approval by both department chair and employer providing internship experience.

INTB 3330 International Business [3-0]  
fall, spring

Business concepts, analytical processes and philosophical bases for international business operations. Emphasis is on environmental dynamics, multinational business organizations, cultural and economic constraints, unique international business practices and international operations, strategy and policy.

INTB 4360 Export Management [3-0]  
fall, spring

Introduction to imports and exports procedures and processes, with emphasis in logistics ó documentation, export licenses, packaging, terms of sales, payments, transportation and border crossing. Prerequisite: INTB 3330 with a grade of C or better.

INTB 4362 Global Entrepreneurship [3-0]  
spring

This course involves the study of global entrepreneurship and the opportunities available to startups and small businesses pursuing value creation activities across national borders. Special attention is paid to entrepreneurial activity taking place on the US-Mexico border. The class examines global opportunity recognition, the challenges global entrepreneurs encounter, and the ways in which they create value when conducting business across political and cultural boundaries. Prerequisite: INTB 3330 with a grade of C or better.

INTB 4363 Import Management [3-0]  
fall

Practices and processes of import management operations. Include government control and compliance, source of supply, currency, regulations, government regulations, and current issues affecting the importing process. In addition, this course examines appropriate import documentations and selected regulations from 19 Code of Federal Regulations (19 CFR). Prerequisite: INTB 3330 with a grade of C or better.

INTB 4364 International Management [3-0]  
fall, spring

Organizational planning, organizing, including staffing, communication and controlling in an international environment. How these functions of management are affected by, and may need to be adapted for, the social/cultural, economic, legal and political environments. The process of individual negotiation and the impact of culture and business practices on that process. Reference to selected cultures and practices to include Asia, Western Europe and Latin America. Prerequisite: INTB 3330.

INTB 4365 International Competitiveness [3-0]  
fall, spring

International dimensions of competition for global markets, with emphasis on manufacturing, production and operations management as tools of international competitive strategy. Prerequisite: INTB 3330.

INTB 4366 Mexican Import Customs Regulations [3-0]  
spring

Analyze the customs procedures in order to make imports into Mexico. Topics include understanding of Mexican import customs regulations, Customs Laws, agencies in charge of controlling temporary and permanent imports, certificate of origin, invoice and NAFTA preferential tariff rates. Selected regulations from Customs Laws and other Federal Codes. Spanish language proficiency is recommended. Prerequisite: INTB 3330 with a grade of C or better.

INTB 4367 Multimodal Transportation [3-0]  
fall, spring

This course provides background, understanding and current technical information about the techniques of international transportation and distribution. It deals with intermediate agencies such as freight forwarding agencies and transportation brokers, warehousing, material handling and utilization devices. Prerequisite: INTB 3330 with a grade of C or better.

INTB 4368 Cross-Cultural Behavioral Management [3-0]  
fall, spring

This course provides the knowledge required for proficiency in cross-cultural interactions. The emphasis is in conducting an in-depth examination of the organizational behavioral aspects of management in the international context. Prerequisites: MANA 3361, INTB 3330.

INTB 4372 Business Logistics [3-0]  
spring

A system approach to managerial decisions related to movement and storage of supplies, work-in-progress and finished goods. Examine the trade-offs encountered by managers in relation to cost and service level, levels and modes of transportation used, warehousing and control of inventory levels. Additional topics include material handling within warehouses, distribution of finished goods to customers, industrial packaging, and importance of logistics to the overall productivity of a firm. Just-in-time and material resource planning (MRP) are investigated. Prerequisite: INTB 3330 with a grade of C or better.

INTB 4373 US Imports Customs Regulations [3-0]  
spring

Examine the duties and responsibilities of the licensed custom broker. Topics include process for customs clearance including appraisal, bonded warehouse entry, examination of goods, harmonized tariff, fees, bonding, penalties, quotas, immediate delivery, consumption, liquidation, computerized systems, laws and regulations. Students will take sample exams of the United States Customs Broker examination and solve complex problems involving customs regulations and processes. Prerequisite: INTB 3330, INTB 4363

INTB 4379 Topics in International Business [3-0]  
fall, spring

Special topics in international business as selected by the instructor. Course can be repeated as topics change. Prerequisite: INTB 3330 or consent of chair of the department.

## Kinesiology

### Activity/Wellness Courses:

Students may select an activity/wellness course that emphasizes movement arts, lifetime skills or sports skills to satisfy the two hours of kinesiology wellness listed in the University core curriculum requirements. Each course includes a minimum of a two-week wellness component with continuing emphasis throughout the semester. There is a \$6 activity fee for each class unless otherwise indicated.

**Movement Arts:** Fundamental motor skills and knowledge appropriate for various movement forms to enhance cultural awareness and total well-being.

KIN	1210	Basic Karate	[0-3]
KIN	1211	Intermediate Karate	[0-3]
KIN	1215	Tai Chi	[0-3]
KIN	1217	Aikido	[0-3]
KIN	2223	Spanish Dance	[0-3]
KIN	2225	Folk and Square Dance	[0-3]
KIN	2226	Modern Dance	[0-3]
KIN	2230	Jazz Dance	[0-3]
KIN	2235	Mexican Folkloric Dance	[0-3]
KIN	2236	Ballet I	[0-3]
KIN	2264	Fencing	[0-3]

**Lifetime Skills:** Principles, assessment and development of total well-being through health-related physical fitness or development of lifetime skills.

KIN	1200	Beginning Swimming	[0-3]
KIN	1201	Fitness and Motor Development	[0-3]
KIN	1202	Fitness and Wellness (majors only)	[0-3]
KIN	1220	Backpacking	[0-3]
KIN	1221	Camping and Hiking	[0-3]
KIN	2206	Weight Training I	[0-3]
KIN	2216	Weight Training II	[0-3]
KIN	2232	Aerobic Dance	[0-3]
KIN	2233	Aerobic Dance II	[0-3]
KIN	2265	Yoga/Pilates	[0-3]
KIN	2267	Pilates II	[0-3]
KIN	2268	Yoga II	[0-3]
KIN	2280	Advanced Life Saving	[0-3]
KIN	2281	Water Safety Instruction	[0-3]
KIN	2282	Scuba Diving	[0-3]

Fee must be paid directly to the outside scuba vendor. At the time of publication of this catalog, the fee was \$125 (subject to change).

**Sports Skills:** Motor skill acquisition, strategies, knowledge and positive attitudes toward a specific individual or team sport. Each sport addresses physical, mental and social wellness.

KIN	1250	Soccer	[0-3]
KIN	1255	Softball	[0-3]
KIN	2202	Volleyball	[0-3]
KIN	2203	Badminton	[0-3]
KIN	2204	Tennis	[0-3]
KIN	2221	Basketball	[0-3]
KIN	2241	Racquetball I	[0-3]
KIN	2242	Racquetball II	[0-3]
KIN	2256	Tennis II	[0-3]
KIN	2257	Golf	[0-3]

Fee must be paid directly to the golf course for the use of non-University facilities. At the time of publication of this catalog, the fee was \$67.50 (subject to change).

KIN	2259	Bowling	[0-3]
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Fee must be paid directly to the bowling alley for the use of non-University facilities. At the time of publication of this catalog, the fee was \$75 (subject to change).

### Theory Courses:

KIN	1101	Concepts in Physical Activity and Wellness	[1-0]
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fall, spring, summer

A study of the process of taking personal responsibility for engaging in attitudes and behaviors that develop optimal physical health. Emphasis is upon assessing one's physical health coupled with effective nutritional practices, healthy sleep habits, avoidance of risky behaviors, stress management and postural efficiency.

KIN	1202	Fitness and Wellness	[3-0]
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as scheduled  
Wellness components of nutrition, smoking cessation, stress management and substance abuse will be addressed with particular emphasis on health-related fitness and assessment. Prerequisite: Kinesiology majors only.

KIN	1351	Introduction to Kinesiology	[3-0]
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as scheduled  
Orientation to the field of kinesiology, its scope, organization of professional activities, vocational opportunities and professional qualifications.

KIN	1354	Safety and First Aid	[3-0]
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as scheduled  
Basic knowledge for safe and effective living. The essential aspects of home, work, motor vehicle and public safety. Includes both theoretical and practical aspects of emergency care. Standard First Aid, Personal Safety and Cardiopulmonary Resuscitation (CPR). Certification upon completion of specific requirements. Equivalent Course: HLTH 1354; a student may receive credit for only one course.



KIN 2301	Health-Related Physical Fitness Appraisal	[3-0]	KIN 3304	Theory of Baseball	[3-0]
as scheduled			as scheduled		
Introduction to health-related physical fitness and health risk appraisal procedures that are intended to provide the intellectual and motivational base for positive health. (Taken by students who cannot take four hours of required kinesiology activities. Fulfills the University core curriculum requirements. See pages 104-106 for details.)			The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of baseball.		
KIN 2305	Technical Skills for Team Sports	[3-0]	KIN 3305	Theory of Track and Field	[3-0]
as scheduled			as scheduled		
Motor skill acquisition, knowledge, and safety issues in selected team sports (i.e. flag football, volleyball, soccer, softball, etc.). Lab fee required. Prerequisites: Kinesiology major and KIN 1351.			The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of track and field.		
KIN 2310	Outdoor Education	[3-0]	KIN 3310	Modified Team and Individual Sports	[1-2]
as scheduled			as scheduled		
Motor skill acquisition, knowledge and safety issues in selected outdoor education activities (i.e. adventure education, rock climbing, hiking, swimming, etc.). Lab fee required. Prerequisites: Kinesiology major and KIN 1351.			Analysis and presentation of selected sports in a modified form appropriate for middle school students. Participation required.		
KIN 2315	Technical Skills for Individual Sports	[3-0]	KIN 3320	Theory of Volleyball	[3-0]
as scheduled			as scheduled		
Motor skill acquisition, knowledge and safety issues in selected individual or lifetime sports (i.e. tennis, badminton, golf, archery, etc.) Lab fee required. Prerequisites: Kinesiology major and KIN 1351.			The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of volleyball.		
KIN 2320	Movement Arts	[3-0]	KIN 3333	Theory of Soccer	[3-0]
as scheduled			as scheduled		
Motor skill acquisition, knowledge and safety issues in selected movement art activities (i.e. martial arts, dance activities, movement exploration, rhythmical activities, yoga, etc.) Lab fee required. Prerequisites: Kinesiology major and KIN 1351.			The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of soccer.		
KIN 3300	Theory of Football	[3-0]	KIN 3340	Kinesiology Activities for Elementary and Middle Schools	[3-0]
as scheduled			as scheduled		
The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of football.			Motor skill acquisition, knowledge and safety issues in selected elementary and middle school activities (i.e. movement education, activities using small equipment, dance, tumbling, games and modified team and individual sports). Prerequisites: Kinesiology major and admission to teacher education or the Kinesiology Program. There is a \$6.00 activity fee required.		
KIN 3301	Theory of Wrestling	[3-0]	KIN 3342	Lifestyle Management	[3-0]
fall, spring			spring		
The analysis and interpretation of coaching techniques, rules, strategies, and fundamentals of wrestling. Prerequisite: None			Behavioral considerations related to establishing and maintaining personal, commercial, corporate, or clinically-based exercise programs. Emphasis on strategies for tailoring physical activity, increasing adherence, and reducing attrition through incorporation of psychological models. Prerequisite: None		
KIN 3302	Teaching Individual Sports	[1-2]	KIN 3344	Sports Officiating	[3-0]
as scheduled			fall, spring		
A study of current theories of teaching selected individual sports. Participation required.			An introduction to the theories, strategies, terminology, rules and applications of officiating for various sports. Directed officiating experiences may be required. Prerequisite: None		
KIN 3303	Theory of Basketball	[3-0]	KIN 3345	Biomechanics	[3-0]
as scheduled			as scheduled		
The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of basketball.			A study of the structural and mechanical factors that interact with human movement. Prerequisites: BIOL 2403 and BIOL 2404.		

- KIN 3346 Laboratory Methods for the Health Fitness Instructor I [0-3]  
fall  
Scientific foundations of health related fitness, a life-span approach with specific attention to physical fitness assessment. Prerequisites: Kinesiology major and KIN 3345, 3352, and 3353
- KIN 3348 Laboratory Methods for the Health Fitness Instructor II [0-3]  
spring  
Scientific foundations of conditioning, a life-span approach with specific attention to exercise prescription. Includes an overview of therapeutic exercises and fitness components for at-risk populations with emphasis on preventive and corrective programming. Prerequisite: KIN 3346
- KIN 3350 Leadership and Program Administration [3-0]  
fall  
An analysis and study of management and financial principles used in health, fitness, and sport programs. An overview of program design, and leadership skills needed to teach individual and group-led exercise programs. Prerequisite: Kinesiology major
- KIN 3352 Care, Treatment and Prevention of Athletic Injuries [3-0]  
as scheduled  
Prevention and correction of accidents in physical education and athletic activities. The use of proper personal and field equipment, support methods, conditioning exercises, therapeutic aids, medical examinations and massage.
- KIN 3353 Physiology of Exercise [3-0]  
as scheduled  
Basic systemic adaptations to exercise with specific emphasis on teaching kinesiology and on training and conditioning athletes. Prerequisites: BIOL 2403 and BIOL 2404.
- KIN 3354 CPR for the Professional Rescuer [3-0]  
spring  
Knowledge and skills necessary to provide care in respiratory and cardiac emergencies. The skills include performing two-rescuer CPR and techniques for special rescue situations, using resuscitation masks and bag-value masks for ventilating victims, and the proper use of an Automated External Defibrillator (AED). Prerequisites: KIN 1354 or the equivalent certifications.
- KIN 3365 Tests and Measurements in Kinesiology [3-0]  
as scheduled  
The use, interpretation, evaluation and administration of valid tests in kinesiology. Also involves the application of elementary statistical procedures.
- KIN 3368 Sport Psychology [3-0]  
spring
- A study of human behavior in exercise and sport. Emphasis is placed on understanding the psychological principles underlying group process, performance enhancement, and health and well-being. Prerequisites: Kinesiology major and admission to the program.
- KIN 3370 Strength and Conditioning [3-0]  
fall  
Designed to focus on the principles of resistance training and program development, encompassing both theoretical and practical applications as outlined by the National Strength and Conditioning Association (NSCA). Prerequisites: Kinesiology major, and KIN 3345, KIN 3353, and admission to the program.
- KIN 3395 Motor Learning [3-0]  
as scheduled  
A study of applications of principles of psychology to learning situations involved in motor skill acquisitions. Emphasis will be given both to general learning situations involved in the mastery of motor skills and to special situations involved with individual and group problems of motivation and response.
- KIN 4313 Kinesiology Workshop [3-0]  
as scheduled  
This course is designed to give a student experience in research or in-depth study/readings in a substantive area not normally covered within standard courses. Course topics will vary according to student interest. May be repeated for credit with different topics.
- KIN 4321 Advanced Athletic Training [3-0]  
summer  
Designed to provide the prospective student athletic trainer with a clinical approach to the various aspects of an athletic training environment including the prevention, care, and treatment of athletic related injuries. Prerequisites: KIN 3345, 3352, and 3353 plus permission of the Head Athletic Trainer.
- KIN 4322 Rehabilitation/Therapeutic Modalities In Athletic Training [3-0]  
summer  
Designed to enable the student athletic trainer to assess, measure, and document various degrees of athletic related injuries; and subsequently, develop appropriate progressive rehabilitation/therapeutic modalities including strengthening, conditioning, flexibility, and neuromuscular development designed to enhance the repair and recovery of athletic injuries. Prerequisites: KIN 4421
- KIN 4351 Adapted Kinesiology [3-0]  
as scheduled  
The selection and planning of kinesiology for students whose activity must be adapted due to demands by gravity, trauma, injury, congenital defect, illness or disease. Pedagogy labs and field experiences are required. Prerequisites: KIN or GESE major and admission to teacher education.

KIN 4368 Kinesiology Practicum [3-0]  
fall, spring  
University work and field placement in a public and/or private setting where the student applies the combination of theory and practice in various disciplines of the field of kinesiology. Ten hours of field work per week are required. This is the capstone course and should be taken the last semester before graduating. Prerequisite: None

KIN 4664 Kinesiology Practicum [3-0]  
as scheduled  
University work and field placement in a public and/or private setting involving the theory and practice of operating a wellness establishment. Twenty hours of field work per week are required. This is the capstone course for the non-certified program. Prerequisites: Admission to the kinesiology non-certified program and the final semester of coursework.

## Latin American Studies

LAMS 2301 Introduction to  
Inter-American Studies [3-0]  
fall, spring, summer  
This course provides an introduction to major themes in Latin American and border studies through the study of history, literature, music and other kinds of expressive culture. These themes may include colonialism, ethnic diversity and conflict, national development, political economy, struggles for democracy, migration, artistic and popular cultures, and gender and sexuality.

LAMS 3377 Latin American Women  
In the Modern Era [3-0]  
as scheduled  
In this course, students will examine the changes that have taken place in the conceptualization, gendered roles, and overall status of women in Latin American societies from 1910 to the present. Major focuses will include the heritage of gender within both Hispanic and Indigenous cultural milieus, the factors contributing to changes in traditional roles during the early and middle twentieth centuries, and the changes still in progress. In addition to traditional texts, the course would include work by major women authors such as Isabel Allende and Elena Poniatowska. May be repeated twice for credit.

LAMS 3378 Women in Colonial  
Latin America [3-0]  
as scheduled  
This course will introduce key texts in the history of women in Latin America from pre-conquest times to the

independence period. The aim of this course is to study the presence and participation of women in history and to provide the tools for analyzing primary sources, posing important questions in the field and critically thinking about historiographical issues. The focus and geographical area will change according to the specialty of the instructor. May be repeated twice for credit.

LAMS 4301 Seminar on Latin  
American Studies [3-0]  
fall, spring, summer  
An interdisciplinary course that reviews and integrates major themes and ideas that have guided Latin American studies since the mid-20th century and pursues analyses of problems that affect the region, such as inequality, violence, migration, environmental change, health care and international relations. Prerequisite: LAMS 2301.

## Leadership

LEAD 1310 Introduction to  
Leadership Theory [3-0]  
as scheduled  
This is an overview of the history and theory of leadership. This interdisciplinary course is designed to introduce the student to the tasks, strategies and skills of effective leadership. Topics will include historical and contemporary theories, modern organizational theory, goal-setting, decision-making and other leadership topics. The format of the course will involve lecture, group activities and hands-on exercises.

LEAD 2310 Ethics in Leadership [3-0]  
as scheduled  
This course will critically examine the issues of authenticity, self-interest, self-discipline and the moral obligations leaders face in pursuing justice, duty and the greatest good. Additionally, this course will investigate and analyze the ethical obligations of constituents and how the ethical commitments of both leaders and constituents are interconnected. The format of the course will include case studies, written papers and class debates.

LEAD 3310 Community Leadership [3-0]  
as scheduled  
This course will help students apply leadership theory to community service. A number of guest lecturers, solicited and scheduled by students, will introduce students to public service opportunities in their own backyard. The guest lecturers will be presented by local community and university leaders. Students will be required to interview these leaders and write and present a biographical introduction for them. Students will also be required to participate in a community service organization and write a paper on the experience. Students in this class will also partner with the local leadership programs. Prerequisites: POLS 2313 and POLS 2314.

**LEAD 4310** Survey of Texas and U.S. Leadership Models and Practices [3-0]  
as scheduled  
The course examines leadership on a macro-level. Starting at the state level and moving on to a national scope, this class will explore case studies in both government and organizational leadership. Students will have the opportunity to explore leadership styles, both successful and not, of a number of famous (or infamous) state and national leaders. In addition, students will examine a number of complex social issues that affect us on a state and/or national level. They will have the opportunity to apply leadership theory, community building strategies and interdisciplinary approaches to propose a variety of solutions. Prerequisite: POLS 2313 and 2314.

**LEAD 4320** Survey of World Leadership Models And Practice [3-0]  
as scheduled  
This course examines leadership on a global level. Students will explore world leadership through case studies, examine the differences between leadership styles and models in Latin America, Europe, the Middle East, Asia, etc. In addition, students will have the opportunity to examine a number of complex social issues that affect society on a global level. They will apply leadership theory, community building strategies and interdisciplinary approaches to propose a variety of solutions. Prerequisite: POLS 2313 and POLS 2314.

## Management

**MANA 3300** Internship in Management [0-0-3]  
as scheduled  
This internship is designed to give students an opportunity to gain real-world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. Prerequisites: Upper-division standing and approval by both department chair and employer providing internship experience.

**MANA 3333** Digital Media for Management and Marketing [3-0]  
as scheduled  
Digital media available to organizational managers and marketers is a fast moving field of development. Although one area of importance is the technical capability of such media, overlooked competencies are the strategy of media

use, the efficient deployment of digital media and the effective assessment of the medium as a communication tool. This course is a leading edge effort to provide students with exposure to those critical components for organizational success. Prerequisites: MANA 3361 and MARK 3371.

**MANA 3335** Communication Policy and Strategy [3-0]  
fall, spring  
Course focuses on communication policy and practice as contributions to the effectiveness and efficiency of organizational operations in domestic and global theaters. The focus includes decision-making, ethical dilemmas and tactics related to establishment of organizational policies and practices guiding communication, internal and external, global and domestic, to the organization. The course uses case study format. Prerequisites: ENG 1301 and ENG 1302.

**MANA 3361** Principles of Management and Organizational Behavior [3-0]  
fall, spring, summer  
A study of the management functions of planning, organizing, leading and controlling. Emphasis is placed on organizational theory and behavior to include culture and ethics. Prerequisite: CIS 1301 or equivalent.

**MANA 3362** Human Resource Management [3-0]  
fall, spring, summer  
This class focuses on the current developments within the field of personnel administration. Students will have the opportunity to study the concepts, principles, policies and organizational procedures utilized by business institutions in the management of personnel that includes selection, placement, compensation, morale, labor turnover, collective bargaining, employee service and supervisory activities. Prerequisite: MANA 3361.

**MANA 3364** Organizational Theory [3-0]  
fall, spring  
This course studies the theory and process of designing, utilizing and evaluating organizational structures. It includes the design of appropriate jobs which will fit into the organizational structure as well as adapting the organizational design to the operational and environmental demands of the organization. Prerequisite: MANA 3361.

**MANA 3365** Compensation [3-0]  
fall, spring  
This course presents the principles and practices of the determination of relative values of jobs and their applications to basic wage and salary structure. The class includes the formulation of a job evaluation plan and its accompanying wage structure. Prerequisites: ECON 2302, MANA 3361 or consent of chair of the department.

**MANA 3366** Recruitment and Selection [3-0]  
fall, spring  
This course is designed to provide an understanding of the process of recruitment and selection in organizations. It will cover the basic aspects of these areas (e.g. job analysis, legal

issues, selection devices) as well as current issues such as global staffing, downsizing and contingent workers. While the focus of the course is from an organization's point of reference, a significant portion of the requirements will aid students in developing the tools, resources and awareness to get placed and promoted in organizations. Prerequisite: MANA 3361 or consent of the chair of the department.

MANA 3367 Organizational Training and Development [3-0]

This course is designed to provide students with the fundamental aspects of training as well as hands-on practical experience in developing training programs for organizations. The primary focus of this course deals with aiding students in developing the skills necessary to deliver training and development sessions that can be applied in organizations in order to meet the needs of the fast-paced, information-generating corporate environments that are necessary in firms today. A major emphasis will be on skill development in regard to the design and delivery of training that is both efficient and cost effective to the organization. Prerequisite: Junior or senior standing.

MANA 4300 Topics in Management [3-0]  
fall, spring

Special topics in management as selected by the instructor. Course can be repeated as topics change. Prerequisite: MANA 3361 or consent of the chair of the department.

MANA 4352 Family and the Small Business [3-0]  
fall, spring

This course studies the family business employing systems theory, culture and the stages of evolution. Issues such as individual development, management of family structure, conflicts and relationships are explored. Other topics include organizational issues (such as succession and estate planning) and formalizing the firm. Students will be required to undertake a field project where they will report, via a group seminar to the class, on an existing family small business.

MANA 4361 Organizational Behavior [3-0]  
fall, spring

This course focuses on the study of management theory with emphasis on the investigation of individual and group behaviors within organizations. Prerequisite: MANA 3361.

MANA 4363 Production Management [3-0]  
fall, spring, summer

The concept of the production function and its applicability to all types of business firms, problems that provide background for the integration of scientific decision processes relative to an analysis of production activities and computer applications in the production/operations environment. Prerequisites: QUMT 3342 or QUMT 3343 and MANA 3361.

MANA 4364 Business and Society [3-0]  
fall, spring

The behavior and social responsibilities of business firms and other business institutions in modern society to include

current cultural and ethical issues. Prerequisite: MANA 3361 or consent of the chair of the department.

MANA 4365 Quality Management [3-0]  
as scheduled

This course focuses on the design of products and services that meet customer needs; control of processes to ensure meeting design requirements; and the continuous improvement of quality. Analytical methods for obtaining and maintaining quality will be addressed in the course. In order to understand real-life applications of quality management, students will be involved in working with companies on actual quality problems. In addition, case discussions will be used to enhance the students' understanding of the key points in lectures.

MANA 4366 Small Business Management [3-0]  
fall, spring

A study of the special characteristics of small business. Emphasis will be placed on the selecting and starting of a small business and the essential function of management in the first years of operation. Prerequisites: Senior standing in business or entrepreneurship minors. ACC 2301, MANA 3361, and ECON 2301.

MANA 4367 Purchasing and Supply Management [3-0]

A study of the integration and coordination of activities, such as purchasing, outsourcing, materials management, logistics, supplier selection, global sourcing and international distribution, to create an effective flow of materials and information from suppliers to customers.

MANA 4369 Strategic Management [3-0]  
fall, spring, summer

This capstone course for all Business Administration majors requires the broad integration of knowledge contained in functional, core and specialty areas, and focuses on the formulation, implementation and evaluation of strategy in both business and nonprofit organizations in a global environment. Cases, projects and practical applications in the course require in-depth analysis of competitive, economic, regulatory, cultural, technological, demographic and environmental variables as they influence strategy formulation. Prerequisites: MANA 3361, MARK 3371, FINA 3383, completion of the business core analytical course requirement, and completion of the business core international course requirement. This course must be taken in the semester in which the student is graduating.

MANA 4370 Project Management [3-0]  
fall, spring

This course focuses on the organizational function of managing projects process. It uses cases and applications in service sectors to enhance student understanding about the issues and challenges of managing workflow. Prerequisite: MATH 1340 or MATH 1341, and QUMT 3343.

MANA 4399 Business Consulting [3-0]  
on demand

This course is an on-site evaluation of an operating business by a student or students serving in the role as a consultant or consulting team. Course emphasis will be directed toward an analysis of the basic business functions of accounting, finance, production, marketing and management as they pertain to the successful operation of a business. Prerequisite: Senior standing and consent of department.

## Manufacturing Engineering

MANE 2332 Engineering Statistics [3-0]  
spring  
Fundamentals of probability, commonly encountered density functions, distribution functions, statistical tests and experimental designs as used in manufacturing and product design. Includes use of microcomputer-based statistical analysis software. Prerequisite: MATH 1460. Previous Course Number: MANE 3332.

MANE 3101 Projects in Manufacturing Engineering [0-3]  
as scheduled  
Special construction projects, research activities or supervised manufacturing engineering studies. May be repeated once for credit. Prerequisite: Junior standing or consent of instructor.

MANE 3164 Manufacturing Processes Lab [0-3]  
fall, spring  
Provides hands-on experience in various manufacturing processes. Prerequisite: Credit for or enrollment in MANE 3364. \$30 laboratory fee.

MANE 3300 Computer-Aided Design [2-3]  
fall  
Curve and surface definition, geometric transformation and solid modeling, projections and visualization and numerical analysis, introduction to finite element analysis. Prerequisite: MECE 1221.

MANE 3301 Projects in Manufacturing Engineering [0-9]  
as scheduled  
Special construction projects, research activities or supervised manufacturing engineering studies. May be repeated once for credit. Prerequisite: Junior standing or consent of instructor.

MANE 3302 Computer-Aided Manufacturing [2-3]  
spring

Programmable logic controllers, sensors, robotics, computer control of manufacturing processes and integration. Prerequisite: Credit for or enrollment in MANE 3364.

MANE 3337 Engineering Economics [3-0]  
fall  
Application of economics and decision theory to engineering alternatives in planning, developing, constructing and managing engineering projects. Discounted cash flow mechanics, economic analysis, management of money and economic decisions including inflation and utility theory. Prerequisite: MANE 2332.

MANE 3340 Fundamentals of Industrial Engineering [3-0]  
spring  
Introduction to economic analysis, industrial and project management, ergonomics, human factors, work recording techniques, time and motion study and line balancing. Prerequisite: MANE 2332. Previous Course Number: MANE 2340.

MANE 3351 Manufacturing Engineering Analysis [3-0]  
fall  
Topics include linear algebra, numerical methods and programming with engineering analysis software. Prerequisites: MATH 1470, CSCI 1380.

MANE 3364 Manufacturing Processes [3-0]  
fall and spring  
An introduction to manufacturing processes including metal cutting, non-traditional machining, force analysis, casting, deformation and joining processes, plastics, composites, manufacturing of ceramics and electronics devices. Prerequisite: MECE 2440.

MANE 4311 Quality Control [3-0]  
fall  
Study of statistical methods applied to the assurance of product quality. Foundational principles developed by Juran, Deming and others will be applied. Sampling techniques and control charts will be applied. Concepts of statistical process control will be emphasized throughout. Design of experiments and Taguchi-type methodologies will be introduced. Prerequisite: MANE 2332.

MANE 4321 Automation Systems [3-0]  
fall  
Modeling of mechanical, thermal, fluid, electrical and electromechanical systems; time response analysis, block diagram and signal flow representation; stability analysis and design of compensators. Prerequisite: Credit for or enrollment in MATH 3349.

MANE 4331 Manufacturing Planning and Control [3-0]

spring

A capstone course covering the principles of manufacturing process and plant design and control emphasizing the interrelationship between product design, process design and the firm's operating plan. Computer models will be used extensively. Prerequisite: Consent of instructor.

MANE 4333 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 4340 Operations Research [3-0]  
spring

An introduction to basic concepts in mathematical modeling, stochastic processes, linear programming and optimization. Applications include inventory system and control, plant location and network analysis. Prerequisite: MANE 3351.

MANE 4352 Manufacturing Simulation [3-0]  
spring

Develops skills in applying discrete computer simulation and modeling techniques for facility layout design and production planning. Topics include data collection, input analysis, distribution fitting, model development, verification and output analysis. Prerequisite: MANE 2332.

## Marketing

MARK 3300 Marketing Internship [0-0-3]  
fall, spring, summer

This internship is designed to give students an opportunity to gain real-world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. Prerequisites: Upper-division standing and approval by both department chair and employer providing internship experience.

MARK 3371 Principles of Marketing [3-0]  
fall, spring, summer

The marketing structure as it operates in our economic system, with emphasis on improving the flow of goods and services from producer to consumer. Practical application of principles and techniques. Designed as a beginning course in marketing. Prerequisites: Admission to the College of Business Administration or junior standing plus departmental approval.

MARK 3372 Consumer Behavior [3-0]  
fall, spring

An overall view of the basic perspectives of consumer behavior. An interdisciplinary approach is utilized by studying the fields of economics, psychology, sociology and anthropology as they relate to marketing. Emphasis is placed on the fundamental process of motivation, perception and learning, as well as analysis of individual predispositions and group influences in marketing. Prerequisite: MARK 3371.

MARK 3373 Business-to-Business Marketing [3-0]  
fall, spring

A comprehensive study of marketing in non-retailing markets. This course addresses the competitive realities of the global marketplace, customer relationship management, cross-functional decision-making processes, basics of supply chain management, e-commerce and related areas, cases and special projects. Prerequisite: MARK 3371.

MARK 3375 Retailing [3-0]  
fall, summer

Principles and methods of modern retailing, emphasis on problems of store location and layout, buying, pricing, credit, stock control, personnel and sales promotion. Designed for students who wish to gain a general knowledge of the retail field as well as those specializing in marketing. Prerequisite: MARK 3371.

MARK 3376 Professional Selling [3-0]  
fall, spring

Professional salesmanship, the product, the buyer, planning the presentation, meeting the prospect, the interview, overcoming resistance, closing the sale and building goodwill, presentations with an emphasis on consultative selling. Prerequisite: MARK 3371 or consent from instructor.

MARK 3378 e-Marketing [3-0]

fall, spring, summer

This course focuses on the marketing of business over the Internet, highlighting the important dual role of the Internet in selling online and providing support for brick and mortar stores. The course will both evaluate existing Web sites and cover theories of improving the customer utility of Web sites. Students will have the opportunity to study about driving traffic to the Web site, keeping customers on the site and encouraging purchases from the Web site. Prerequisite: MARK 3371.

MARK 3379 Services Marketing [3-0]  
fall, spring

This course focuses on the marketing of services businesses highlighting the differences between them and marketing product businesses. The course looks at different categories of services businesses, i.e. retail, hospitality, and professional services to identify differences in the way consumers evaluate these enterprises and means of improving customer satisfaction.

## MARK 3380 Product and Brand Strategy [3-0]

fall, spring, summer

This course covers three major tasks facing today's product and brand managers: (1) Analyzing the market; (2) Developing objectives and strategies for the product or brand; and (3) Making decisions about price, advertising, promotion, channels of distribution and service. Utilizes the familiar Marketing Plan as the unifying framework and takes a hands-on approach toward preparing students to assume the position of product manager. This course is required for the major. Prerequisite: MARK 3371.

## MARK 3385 Hispanic Marketing [3-0]

fall, spring, summer

This is an interdisciplinary review of economic, psychological, social, and cultural characteristics of Hispanic consumers and markets. Emphasis will be on processes of motivation, perception, and learning, as well as strategies appropriate in Hispanic markets. Prerequisite: MARK 3371.

## MARK 3390 Pricing and Marketing Metrics [3-0]

fall, spring, summer

This course is designed to provide students with an integrative framework for making pricing decisions. The purposes of the course are to help students learn to synthesize economic and marketing principles with accounting and financial information, and to analyze pricing options within market, legal, and corporate constraints. This course is required for the major. Prerequisite: MARK 3371.

## MARK 3395 Music Marketing [3-0]

fall, spring, summer

This course surveys music publishing, live entertainment, recording companies, production and A&R, and marketing, with an eye on both practical and theoretical issues. It will examine major organizational players and provides a general overview of the industry. Prerequisite: Junior standing.

## MARK 4330 International Marketing [3-0]

fall, spring, summer

The development of the international marketing mix for the multinational organization, and an in-depth look at global versus domestic marketing management. Prerequisite: MARK 3371.

## MARK 4340 Channels of Distribution [3-0]

fall, spring, summer

Starting with a review of physical distribution of tangible and intangible products, this course also covers select inter-organizational and individual customers. It reviews the behavioral and structural aspects of exchange relationships, the broadened perspective and emerging practices in marketing channels, and the relevance of the multi-level environments. Prerequisite: MARK 3371.

## MARK 4350 New Product Development [3-0]

fall, spring, summer

New Product Development covers in detail the new product development (NPD) process that is widely used by

companies of varying sizes and industries. Many important issues often encountered in new product development such as strategic planning for new products will be examined and discussed. A variety of cutting-edge techniques and useful methods for creativity stimulation and innovation management will be studied as well. The course material is essential to business success for companies interested in innovation. Prerequisite: MARK 3371.

## MARK 4372 Integrated Marketing Communications [3-0]

fall, spring, summer

This course focuses on all organizational and marketing issues that help ensure messages received by customers are consistent across time, media channel, and communication source with special attention to online (i.e., e-marketing campaigns or programs) and offline communications (e.g., print, mail order, public relations, industry relations, billboard, radio, and television). This course is required for the major. Prerequisite: MARK 3371.

## MARK 4373 Sales Management [3-0]

fall, spring

Decision making of the sales manager and how it affects the sales force. Emphasis is placed on sales planning, staffing, training and directing of the sales force including sales force analysis and evaluation. Prerequisite: MARK 3371.

## MARK 4379 Topics in Marketing [3-0]

fall, spring

Special topics in marketing will be covered as selected by the instructor. Course can be repeated for credits as topics change. Prerequisite: MARK 3371 or consent of the chair of the department.

## MARK 4382 Marketing Research Analysis [3-0]

fall, spring

This course covers quantitative research procedures and techniques used in business today. These include problem definition, sources of research data, survey methods, questionnaire design and sampling techniques. Prerequisites: QUMT 3343 and MARK 3371.

## MARK 4383 Marketing Research Applications [3-0]

fall, spring

Required for all marketing majors. It is designed as a research application course whereby students are assigned a real-world marketing problem to solve. Students would be required to identify the research question, develop a plan for study, implement the research study, analyze the results and present the results in a professional, realistic situation. Prerequisite: QUMT 3343 and MARK 4382.

## MARK 4389 Marketing Strategy [3-0]

fall, spring, summer

This is the capstone marketing course and must be taken in your last semester. Emphasis on integrating knowledge of various marketing tools and models that may be useful in assisting the marketing manager in the decision-making



process. All areas of marketing are discussed within the decision-making framework, with practical applications of techniques emphasized. Prerequisites: MARK 3371.

## Mathematics

MATH 1300 Elementary Algebra [3-0]  
as scheduled

A course in elementary algebra designed for the student with a background in numerical skills. Students have the opportunity to prepare for intermediate algebra and other mathematics coursework recommended in education, fine arts, the humanities or social sciences. Topics include basic operations on real numbers, elementary geometry, introduction to algebra, linear equations and graphs, linear equations with applications, exponent properties, systems of linear equations in two unknowns, polynomials and factoring methods. This course does not count toward a student's hours for graduation or in the determination of hours attempted or earned. This course may not be used to satisfy any University core curriculum requirements.

MATH 1334 Intermediate Algebra [3-0]  
as scheduled

A course in algebra designed to prepare the student for College Algebra or the equivalent. Topics include factors of polynomials; rational expressions; radical expressions; an introduction to complex numbers, quadratic equations, rational equations, radical equations and elementary inequalities. Prerequisite: MATH 1300 with a grade of C or better or satisfactory score on the ACT or placement exam. This course does not count toward a student's hours for graduation or in the determination of hours attempted or earned.

MATH 1340 College Algebra [3-0]  
as scheduled

Topics include nonlinear and absolute value inequalities, functions, complex numbers, polynomial and rational functions, exponential and logarithmic functions, and systems of linear and nonlinear equations. Credit may be received in only one of MATH 1340 and MATH 1440. Prerequisite: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

MATH 1341 Business Algebra [3-0]  
as scheduled

Topics include inequalities, quadratic functions, logarithmic and exponential functions, sequences and series, mathematics of finance, systems of linear equations, matrices and an introduction to linear programming. Use of technology to perform numerical computations is emphasized. Prerequisite: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

MATH 1342 Business Calculus [3-0]  
Topics include differential calculus with business optimization applications, multivariable calculus including optimization techniques and applications and an introduction to integral calculus. Prerequisite: MATH 1340 or MATH 1341 with a grade of C or better.

MATH 1348 Contemporary Mathematics [3-0]  
fall, spring, summer

Topics include real-world problem-solving and critical thinking; mathematical logic; graphs and graphical representations; statistics and probability; voting and apportionment methods, and financial mathematics. This course is designed to meet the THECB Exemplary Educational Objectives and will satisfy the core requirement in mathematics. Prerequisite: MATH 1334 with a grade of C or better, and/or satisfactory placement scores.

MATH 1389 Contemporary Mathematics Honors [3-0]  
fall, spring

Topics include real-world problem-solving and critical thinking; mathematical logic; graphs and graphical representations; statistics and probability; voting and apportionment methods, and financial mathematics. This course is designed to meet the THECB Exemplary Educational Objectives and will satisfy the core requirement in mathematics. Prerequisite: MATH 1334 with a grade C or better, and/or satisfactory placement scores.

MATH 1440 College Algebra:  
An Alternative Approach [4-0]  
fall, spring, summer

This course offers an extended-time format which provides for a more in-depth treatment of traditional college algebra topics. Innovative instructional activities designed to improve success and retention rate will be implemented. Included are group learning activities, frequent evaluation, increased interaction with teachers and peers, item analysis with reassignments for mastery, and activities to increase student confidence and reduce anxiety. Topics include nonlinear and absolute-value inequalities; complex numbers; polynomial, rational, exponential, and logarithmic functions; systems of linear and nonlinear equations; and real-world applications. Prerequisites: MATH 1334 with a grade of C or better or satisfactory score on the Math ACT or placement exam. Credit may be received in only one of MATH 1340 or MATH 1440.

MATH 1450 Pre-calculus with  
Trigonometry [4-0]  
fall, spring, summer

Topics include trigonometric functions, applications, graphs, equations and identities; inverse trigonometric functions; vectors; sequences and series; the binomial theorem; conic sections; and parametric and polar equations. A student may use MATH 1450 to replace a grade received in MATH 1357; however, one may not receive credit for both MATH 1357 and MATH 1450. Prerequisite: MATH 1340 with a grade of C or better or appropriate high school background and/or placement

scores.

MATH 1460 Calculus I [4-0]  
fall, spring, summer  
Topics include limits, the derivative and its applications, antiderivatives, definite integrals and the derivatives and integrals of transcendental functions. A student may use MATH 1460 to replace a grade received in MATH 1401; however, one may not receive credit for both MATH 1401 and MATH 1460. Prerequisite: MATH 1450 with a grade of C or better or appropriate high school background and/or placement scores.

MATH 1470 Calculus II [4-0]  
fall, spring, summer  
Topics include methods and applications of integration, parametrized curves, integration in polar coordinates and infinite sequences and series. A student may use MATH 1470 to replace a grade received in MATH 1402; however, one may not receive credit for both MATH 1402 and MATH 1470. Prerequisites: MATH 1460 with a grade of C or better.

MATH 1487 Calculus I (Honors) [4-0]  
as scheduled  
Topics of derivatives, definite integrals, limits are studied taking examples from algebraic and transcendental functions. Emphasis is placed on calculus as a discipline and calculus as a tool in modeling. Prerequisites: MATH 1450 with a grade of C or better or appropriate high school background and placement scores, together with admissions to the honors program or consent of instructor.

MATH 1488 Calculus II (Honors) [4-0]  
as scheduled  
Topics include methods and applications of integration, alternative coordinate systems, parameterizations, infinite sequences and series. Topics are viewed as useful tools and are studied in the context of calculus as a discipline. Prerequisites: MATH 1487 (or MATH 1460) with a grade of C or better or appropriate high school background and/or placement scores, together with admission to the honors program or consent of instructor.

MATH 2330 Elementary Statistics  
and Probability [3-0]  
as scheduled  
This course is intended to provide the student with an elementary overview of the mathematical nature and uses of descriptive statistics and inferential statistics. Topics include the definitions and fundamental theorems concerning measures of central tendency and dispersion, empirical and theoretical concepts of probability, the central limit theorem, tests of hypotheses, interval estimation, chi-square tests and regression and correlation. Equivalent Course: STAT 2330. Credit may be received in only one of MATH 2330 or STAT 2330. Prerequisite: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

MATH 2335 Introduction to Biostatistics [3-0]  
fall, spring, summer

Topics include introduction to biostatistics; biological and health studies and designs; probability and statistical inferences; one- and two-sample inferences for means and proportions; one-way ANOVA and nonparametric procedures. Equivalent course: STAT 2335. Credit may be received in only one of MATH 2335 and STAT 2335. Prerequisites: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

MATH 2346 Mathematics for  
Electrical Engineers [3-0]  
as scheduled

This course covers the essentials of matrix theory, discrete mathematics, and numerical methods needed for majors in electrical engineering. Topics include Gauss-Jordan elimination, matrix algebra, determinants, graphs, trees, combinatorics, root finding algorithms, numerical differentiation, numerical integration, and numerical matrix methods. Prerequisites: CSCI 1380 with a grade of C or better. Co-requisite: MATH 1470.

MATH 2387 Probability and Statistics - Honors [3-0]  
as scheduled

An enriched introductory probability and statistics course with topics chosen from descriptive statistics, probability, and inferential statistics. Special emphasis will be given to problem solving using statistical calculators and software. Credit Restriction: Credit may be received for only one of MATH 2330, STAT 2330 and MATH 2387. Prerequisites: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam, together with admission to the honors program or by permission.

MATH 2388 Introduction to Biostatistics  
(Honors) [3-0]  
as scheduled

Topics include introduction to biostatistics; biological and health studies and designs; probability and statistical inference; one- and two-sample inferences for means and proportions; one-way ANOVA and nonparametric procedures. Credit Restriction: Credit may be received for only one of MATH 2335, STAT 2335, and MATH 2388. Prerequisites: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam, together with admissions to the honors program or consent of instructor.

MATH 2401 Calculus III [4-0]  
as scheduled

Topics include vectors, calculus of several variables, partial derivatives, multiple integrals and vector calculus including the Divergence Theorem and Stoke's Theorem. Prerequisite: MATH 1470 with a grade of C or better.

MATH 3303 History of Mathematics [3-0]  
as scheduled

This course is a study of the historical development of ideas that shape modern mathematical thinking. Although mathematicians are studied, emphasis is placed on mathematical development. Prerequisite: MATH 1470 with a grade of C or better.

MATH 3311 The Organizational Structures and Processes of Mathematics [3-0]

as scheduled

This course examines the content and organization of logical, axiomatic and algorithmic structures and the corresponding networks of concepts, principles and skills in the field of mathematics. It includes the analysis, justification and application of such mathematical processes as those for proofs, algorithms, problem solving and applications of mathematics. This course aims at developing an advanced level of understanding of mathematics (content and method) up through integral calculus. Prerequisite: MATH 1470 with a grade of C or better.

MATH 3328 Introduction to Mathematical Proof [3-0]

fall, spring, summer

This course is intended to prepare the student for advanced mathematics courses that require the writing of proofs. It reviews the elementary proof methods and the logical structure underlying them. It examines the formal definitions and basic properties of the mathematical structures that one encounters when constructing proofs, and it recounts famous theorems concerning these structures that every mathematician needs to know. Students are expected to construct, independently, non-routine mathematical proofs and to present their work in written form. Substantial written work is required. Prerequisites: MATH 1460 with a grade of C or better.

MATH 3333 Mathematics in a Computer Environment [3-0]

fall, spring, summer

This course studies mathematics that can be developed and explored in an environment that includes the computer as the primary investigate tool. Prerequisite: MATH 1470 with a grade of C or better.

MATH 3337 Applied Statistics I [3-0]

as scheduled

This course concerns itself with probabilistic models, regression analysis, nonparametric statistics and the basics of experimental design. Computer laboratory experience will be an important part of the class. Equivalent Course STAT 3337. One may receive credit for only one of MATH 3337 and STAT 3337. Prerequisites: Junior standing and either MATH 1340 or MATH 1341. It is highly recommended that the student have some knowledge of statistics such as is offered in MATH 2330.

MATH 3338 Applied Statistics II [3-0]

as scheduled

This course is a continuation of MATH 3337 and includes special designs, analysis of variance and covariance, multiple comparisons and coding. Equivalent course: STAT 3338. Credit can be received for only one of MATH 3338 and STAT 3338. Prerequisite: MATH 3337 or STAT 3337.

MATH 3345 Applied Linear Algebra [3-0]

as scheduled

Topics includes systems of linear equations, matrices, and their algebraic properties, determinants, vectors, Euclidean n-space, linear transformations and their matrix representations, vector spaces, eigenvalues and eigenvectors, and applications to the sciences and business. Use of mathematical technology will be incorporated throughout the course. Prerequisite: MATH 1460 with a grade of C or better.

MATH 3349 Differential Equations [3-0]

as scheduled

This course studies first-order and linear second-order differential equations, Laplace transforms, power series solutions and first-order linear systems. Prerequisite: MATH 1470 with a grade of C or better.

MATH 3355 Linear Programming [3-0]

as scheduled

Basic theory of linear programming, an introduction to the simplex method path-following interior-point methods, and applications of linear programming. Programming will be done in MATLAB. Prerequisite: MATH 3345 with grade of C or better.

MATH 3368 Numerical Methods [3-0]

as scheduled

This course includes interpolation, numerical integration, numerical solutions to differential equations and a study of numerical solutions to systems of equations. Equivalent Course: CSCI 3350; a student may receive credit for only one course. Prerequisites: MATH 1460; CSCI 1380 or consent of instructor.

MATH 3373 Discrete Structures [3-0]

as scheduled

This course addresses mathematical topics readily used in computer science, including formal logic, mathematical proof, counting techniques, functions and relations, an introduction to compatibility, the Church-Turing thesis and modeling computation. Prerequisites: MATH 1460 or MATH 1342, and CSCI 1380, all with a grade of C or better.

MATH 4302 Number Theory [3-0]

as scheduled

Topics includes the binomial theorem, divisibility, the extended Euclidean algorithm, Diophantine equations, primes, congruencies, Euler's theorem, multiplicative functions, the Fibonacci sequence, Pythagorean triples, continued fractions, and applications to cryptology. Prerequisite: MATH 3345 with a grade of C or better.

MATH 4304 Modern Geometries [3-0]

fall, spring, summer

This course studies Euclidean and non-Euclidean geometries focusing on axiomatic systems. Note: A student may not receive credit for both MATH 3304 and MATH 4304. Prerequisites: MATH 3345 with a grade of C or better.

MATH 4317 Complex Analysis [3-0]

as scheduled

This course is an introduction to the theory of functions of a complex variable with basic techniques and some applications. Topics include complex numbers and the extended complex plane, elementary functions of a complex variable, differentiation, conformal mappings, contour integration, Cauchy's theorem, Cauchy's formula, Taylor and Laurent series and residue theory. Prerequisite: MATH 2401 with a grade of C or better.

MATH 4318 Boundary Value Problems [3-0]  
as scheduled

This course is an introduction to elementary partial differential equations, with applications to physics and engineering. Heat conduction, diffusion processes, wave phenomena and potential theory are explored by means of Fourier analysis. Prerequisite: MATH 3349 with a grade of C or better.

MATH 4319 Integral Transforms [3-0]  
as scheduled

This course is an introduction to transform analysis based on the theory of Fourier and Laplace integrals. Topics include contour integration, inverse formulas, convolution methods, with application to mathematical analysis, differential equations and linear systems. Prerequisites: MATH 2401 and MATH 3349 both with a grade of C or better.

MATH 4329 Elementary Cryptology [3-0]  
fall, spring, summer

Topics include elementary ciphers, error-control codes, public key ciphers, and pseudo-random number generators. Prerequisite: MATH 3345 with a grade of C or better.

MATH 4336 Sampling [3-0]  
as scheduled

This course surveys the basic elements of sampling including concept of population and sample, the organization of a sample survey, coverage content error, questionnaire design, basic survey designs, and computation of estimates and variances. Equivalent course: STAT 4336. Credit may be received in only one of MATH 4336 and STAT 4336. Prerequisites: MATH/STAT 2330 with a grade of C or better.

MATH 4339 Probability and Statistics I [3-0]  
as scheduled

Topics include probability, random variables, discrete and continuous probability distributions, expectations, moments and moment generating functions, functions of random variables and limiting distributions. Prerequisite: MATH 1470 with a grade of C or better.

MATH 4340 Probability and Statistics II [3-0]  
fall, spring, summer

Topics include sampling distributions and data descriptions, estimation problems, test of hypothesis, regression models, analysis of variance, nonparametric statistics, statistical quality control, and Bayesian statistics. Prerequisite: MATH 4339 with a grade of C or better.

MATH 4351 Modern Algebra [3-0]

as scheduled

This course provides an introduction to algebraic structures. Topics are to be taken from groups, rings and fields. Prerequisite: MATH 3328 and MATH 3345, both with a grade of C or better.

MATH 4357 Real Analysis [3-0]  
as scheduled

This course presents a rigorous introduction to the elements of real analysis. Topics include sequences, series, functions, limits, continuity and derivatives. Prerequisite: MATH 1470 and MATH 3328, both with a grade of C or better.

MATH 4360 Topology [3-0]  
as scheduled

This course presents a rigorous introduction to the elements of topology. Topics include a study of metric spaces, separation axioms, topological spaces and topological properties of point sets and mappings. Prerequisite: MATH 1470 and MATH 3328, both with a grade of C or better.

MATH 4364 Special Problems in Mathematics [3-0]  
as scheduled

This course covers special undergraduate topics in mathematics that are not taught elsewhere in the department. May be repeated for credit. Prerequisite: Consent of instructor.

MATH 4377 Applied Regression [3-0]  
as scheduled

This course discusses applications of Regression in the areas of science and engineering, business, and economics, health science and humanities, education and psychology. The topics include: simple and multiple linear regression, ordinary and weighted least square techniques, outliers detection, multicollinearity, variable selection, dummy variables, logistic regression etc. Prerequisites: MATH/STAT 2330 (Elementary Statistics and Probability) and either MATH 1460 (Calculus I) or MATH 1342 (Business Calculus).

MATH 4379 Special Problems in Applied Mathematics [3-0]  
as scheduled

This course covers special undergraduate topics in applied mathematics that are not taught elsewhere in the department. May be repeated for credit when topic is different. Prerequisite: Consent of instructor.

MATH 4390 Mathematics Project [3-0]  
fall, spring, summer

Students will complete a major mathematical project communicating its results in oral and written form. Prerequisites: 12 advanced MATH hours with grades of C or better, and consent of instructor.

## Mathematics - Other

EMAT 2306 Foundations of Mathematics I [3-0]  
as scheduled  
Students will have the opportunity to study the mathematical background of meaningful learning of number concepts, precise definitions, fundamental operations and problem-solving mathematics. The structure of the real number system is developed through the use of elementary logic and set theory. Prerequisite: MATH 1340 with grade of C or better.

EMAT 2307 Foundations of Mathematics II [3-0]  
as scheduled  
This course is a continuation of EMAT 2306. Topics include measurement, geometry, probability and statistics, elementary algebra and problem solving. Prerequisites: MATH 1340 and EMAT 2306, both with grade of C or better.

EMAT 3308 Foundation of Mathematics III - Elementary [3-0]  
as scheduled  
This course advances knowledge and skills from EMAT 2306 and EMAT 2307 and involves analyses of elementary mathematical structures, their construction, and synchronous mappings into multiple embodiments (e.g., symbolic, situational, technological, geometric, and others). Clinical, laboratory and field experiences provide opportunities to construct and assess selected structures according to established theories. Prerequisites: EMAT 2306 with a grade of C or better and EMAT 2307 with a grade of C or better.

MMAT 3309 Foundations of Mathematics III ñ Intermediate [3-0]  
as scheduled  
This course advances knowledge and skills from EMAT 2306 and EMAT 2307 and involves analyses of intermediate mathematical structures, their construction and synchronous mappings into multiple embodiments (e.g., symbolic, situational, technological, geometric, and others). Clinical, laboratory, and field experiences provide opportunities to construct and assess selected structures according to established theories. Prerequisites: EMAT 2306 and EMAT 2307, both with a grade of C or better.

MMAT 3312 Measurement and Geometry [3-0]  
as scheduled  
This course is an in-depth study of measurement and geometry. Topics include length, area, volume, the metric system, transformations, symmetry, congruency, similarity,

proof and coordinate systems, using technology and the van Hiele model of geometry instruction. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3313 Algebraic Structures [3-0]  
as scheduled  
This course is an in-depth study of algebraic structures. Topics include meaningful learning of concepts and properties of relations, functions, binary operations, groups, rings and fields, using technology when appropriate. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3314 Basics of the History of Mathematics [3-0]  
fall, spring, summer  
An introductory study of the history of mathematics. The mathematics of various civilizations will be studied and will include topics from number systems, Euclidean geometry, number theory, algebra, analytic geometry, calculus, non-Euclidean geometries, and set theory. Equivalent course: EMAT 3314 Prerequisite: EMAT 2307 with a grade of C or better

MMAT 3315 Probability and Statistics [3-0]  
as scheduled  
This course is an in-depth study of probability and statistics. Topics include descriptive statistics, probability and inferential statistics, using calculator and computer technology. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3316 Mathematics in a Computer Environment [3-0]  
as scheduled  
This course studies mathematics that can be developed and explored in an environment that includes the computer as the primary investigative tool. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3317 Basics of Discrete Mathematics [3-0]  
as scheduled  
This course is an introductory study of discrete mathematics. Topics include uses of mathematical notation, concepts, principles, and proofs applied to combinatorics, relations, graph theory, recursion and generating functions. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3318 Basics of Number Theory [3-0]  
as scheduled  
This course is an introductory course of number theory. Topics include uses of mathematical notion, concepts, principles, proofs applied to divisibility (e.g., primes, factorization, gcd, lcm), modular theory, Diophantine equations, multiplicative functions, Pythagorean triples, Fibonacci sequences and applications to cryptography. Prerequisite: EMAT 2307 with a grade of C or better.

MMAT 3319 Mathematical Structures and Processes [3-0]

as scheduled

An in-depth study in mathematical structures and processes. Topics include concepts, principles, skills, proofs, applications of logical, axiomatic, and algorithmic mathematical structures and processes. Prerequisites: EMAT 2307 with a grade of C or better.

MMAT 3320 Basics of Mathematical Modeling [3-0]

as scheduled

An introductory study of mathematical modeling. Topics include the exploration of real world and mathematical situations using Algebra, Geometry, Probability and Statistics, and elementary Calculus using calculator and computer technology when appropriate. Prerequisites: EMAT 2307 and MATH 1450 with grades of C or better.

MMAT 3321 Mathematical Problem Solving [3-0]

as scheduled

This course is a study of mathematical problem solving using heuristics to investigate problems drawn from algebra, geometry, probability, statistics and calculus with the aid of calculator and computer technology, when appropriate. Topics include Polya's problem solving model, teaching for, about and via problem solving and problem posing. Prerequisite: MMAT 3309 with a grade of C or better.

MMAT 4322 Capstone Research Project [3-0]

as scheduled

Students will have the opportunity to design, construct and evaluate research-based units and technologically enhanced materials for use in teaching mathematics in the middle school. The units will be composed of mathematical content selected from the history of mathematics, algebraic structures, measurement, geometries, probability, statistics, mathematical structures and processes, discrete mathematics, number theory, mathematical modeling and problem solving. Classroom discussions will address mathematical content, mathematical education research and research methodology. Oral presentations and written reports will be required. Prerequisites: MMAT 3315, MMAT 3320, and at least two of MMAT 3312, 3313, 3317, 3318. All with grades of C or better.

## Mechanical Engineering

MECE 1101 Introduction to Mechanical Engineering [0-3]

fall, spring, summer

Introduction to mechanical engineering as a career, the requirements for registration as a professional engineer and the fields of specialization within mechanical engineering. Approaches to engineering problem solving and the graphical presentation of data. Introduction to the main software packages used in engineering. Engineering design stages and implementation within design teams.

MECE 1221 Engineering Graphics [1-3]

fall, spring, summer

This course provides an introduction to computer-aided drafting techniques. Topics include methods of graphical communication, two- and three-dimensional drawing presentation, working drawing, data analysis, design synthesis and production methods.

MECE 2140 Engineering Materials Laboratory [0-3]

fall, spring, summer

This lab is an introduction to the characterization of crystallographic and microstructural properties of solids and the relationship of these characteristics to the mechanical behavior of metallic, polymeric, and composite materials. Course focus is on the use of industrial and research grade instrumentation to solve realistic problems in materials selection and materials engineering. Prerequisite: A grade of C or better in CHEM 1307 and CHEM 1107, and current enrollment in or prior completion of MECE 2340.

MECE 2303 Statics [3-0]

(Texas Common Course Number is ENGR 2301.)

fall, spring, summer

The study of forces, moments, friction, centers of mass, gravity and pressure using the equations of equilibrium in vector algebraic and calculus forms. Prerequisites: A grade of C or better in PHYS 2401, and credit for or enrollment in MATH 1470.

MECE 2304 Dynamics [3-0]

fall, spring, summer

Kinematics, dynamics, work-energy and impulse-momentum methods applied to engineering problems involving particles and rigid bodies. Prerequisite: A grade of C or better in MECE 2303.

MECE 2335 Thermodynamics I [3-0]

fall, spring, summer

Classical thermodynamics with primary emphasis on application of the first and second laws of thermal systems. Introduction to physical and chemical equilibria. Prerequisite: A grade of C or better in MATH 1470.

MECE 2340 Engineering Materials [3-0]

fall, spring, summer

An introduction to the atomic crystallographic and microstructural characteristics of solids and the relationship of these characteristics to the engineering properties and behavior of metallic, polymeric, and composite materials. Course focus is on engineering applications of materials science and includes an introduction to fracture mechanics, corrosion, and composite micromechanics. Prerequisite: A grade of C or better in CHEM 1307 and CHEM 1107, and current enrollment in or prior completion of MECE 2140.

MECE 2405 Engineering Mechanics [3-3]

fall, spring

Force vectors; free body diagrams; engineering applications of equilibrium; centroids; moment of inertia; kinematics and

kinetics applied to engineering problems involving particles and rigid bodies. Prerequisite: A grade of C or better in PHYS 2401 and MATH 1470.

MECE 2450 Numerical Methods and Statistics for Engineers [3-3]

fall, spring

This course offers students an in-depth exposure to the use of numerical methods and programming to solve engineering problems in addition to teaching them the basics of probability theory and statistics in Engineering. It covers the following topics: basic programming (including data structure, if-then-else statements, loops, etc.), numerical solutions to linear and nonlinear equations, systems of linear equations, optimization, curve fitting, numerical calculus, probability theory, and statistics. The course content assumes only an introductory previous exposure to engineering concepts and focuses on exposing students to the programming skills commonly used in later engineering courses to solve problems numerically. Prerequisite: Credit for or enrollment in MATH 1470.

MECE 3100 Undergraduate Research [3-0]

fall, spring, summer  
This course is adapted to technological research with an emphasis in mechanical engineering. For advanced students capable of developing a problem independently through conference and activities directed by the instructor. The topic of research is chosen by the student with the approval of the instructor prior to registration. This course may be repeated for credit up to eight times. Prerequisite: Engineering major and consent of faculty adviser.

MECE 3115 Fluid Mechanics Laboratory [0-3]

spring, summer  
Introduction to basic fluid mechanics instrumentation, computerized data acquisition and analysis. Experimental verification and reinforcement of analytical concepts introduced in MECE 3315. Prerequisite: Credit for or enrollment in MECE 3315.

MECE 3160 Heat Transfer Laboratory [0-3]

fall, summer  
Measurements in basic heat transfer design and heat exchangers; computerized data acquisition and analysis, experimental verification on the theoretical and semiempirical results developed in MECE 3360. Prerequisite: Credit for or enrollment in MECE 3360.

MECE 3304 System Dynamics [3-0]

fall, spring  
The course covers lumped-parameter modeling of mechanical, electrical, fluid and thermal systems. An energetic approach based on bond graph techniques, invented in 1959 by Henry M. Paynter, is introduced. Primary focus is on analysis of linear first- and second-order systems with some exposure to analysis of higher-order

systems. Transient and steady-state responses are examined. Time- and frequency-domain analysis methods are covered. Advanced topics include state-space modeling and feedback control of dynamic systems. Prerequisites: A grade of C or better in MECE 2304 and either MATH 3349 or MECE 3450.

MECE 3315 Fluid Mechanics [3-0]

spring, summer  
Laws and theory relative to incompressible fluids, continuity, momentum and energy relations; internal and external flow in laminar and turbulent regimes; design of piping systems and aircraft parameters. Prerequisites: A grade of C or better in MECE 2335, MATH 2401 or MECE 3449, and MATH 3349 or MECE 3450.

MECE 3320 Measurements and Instrumentation [2-3]

fall, spring  
Fundamentals of measurement systems, standards, treatment of data, statistics, uncertainty analysis, data acquisition, transducers, strain, force, acceleration, pressure, temperature, and fluid flow. Prerequisites: A grade of C or better in PHYS 2402 and MATH 3349 or MECE 3450.

MECE 3321 Mechanics of Solids [3-0]

fall, spring, summer  
This course covers internal forces and deformation in solids, concepts of stress and strain, formulas for stress and deflection for elastic bars, shafts, and beams, stress and strain transformation and theories of failure. Prerequisites: A grade of C or better in MECE 2303 and credit for or enrollment in MATH 3349 or MECE 3450.

MECE 3336 Thermodynamics II [3-0]

fall, spring  
Gas and two-phase power and refrigeration cycles, gas mixtures, chemical reactions, chemical equilibrium. The basic laws and concepts of thermodynamics are viewed as their use is encountered in the course. Prerequisite: A grade of C or better in MECE 2335.

MECE 3360 Heat Transfer [3-0]

fall, summer  
Steady and unsteady one- and two-dimensional heat conduction. Forced and free convection, radiation and heat exchangers. Prerequisites: A grade of C or better in MECE 3315.

MECE 3380 Kinematics and Dynamics of Machines [3-0]

spring, summer  
Kinematic and dynamic modeling and analysis of mechanisms and machines; study of machine components such as linkages, cams, gears, gear trains and differentials. Prerequisites: A grade of C or better in MECE 2304.

MECE 3385 Mechanical Vibrations [3-0]

fall  
Undamped and damped, free and forced vibrations of single

degree of freedom systems with design applications to base excitation, unbalance, rotating shafts, isolation and absorption; multi-degree of freedom systems, continuous systems; transient response; numerical techniques used to analyze alternate designs and propose optimum solutions. Prerequisites: A grade of C or better in MECE 2304 and MATH 3349 or MECE 3450.

MECE 3449 Mechanical Engineering Analysis I [3-3]

fall, spring

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. Prerequisites: A grade of C or better in MATH 1470 and credit for or enrollment in CSCI 1380 or MECE 2450.

MECE 3450 Mechanical Engineering Analysis II [3-3]

fall, spring

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: A grade of C or better in MATH 2401 or MECE 3449.

MECE 4101 Fundamentals of Engineering [0-3]

fall, spring

This course is a review of major engineering topics to prepare students for the Fundamentals of Engineering (FE) exam. Assignments are given to each topic covered, and students are required to take a practice exam. Prerequisite: Junior standing in engineering but within two semesters of graduation.

MECE 4304 Automatic Control Systems [3-0]

spring

Classical control methods for linear-time-invariant systems are investigated including lead-lag, PID and state-feedback controllers. Time- and frequency-domain methods including transfer functions, stability analysis, time and frequency response, root locus and Bode plots are used to design and analyze automatic controllers for mechanical systems. The course also includes an introduction to modern control theory. Prerequisites: A grade of C or better in MECE 2304 and MATH 3349 or MECE 3450.

MECE 4305 Vehicle Systems Modeling and Control [2-3]

fall, spring

This course teaches the essentials of modeling and control principles needed to enable students to apply basic mathematics and physics concepts to derive models for

numerical simulation of ground vehicle systems and to virtually prototype automatic controls for automotive applications. Prerequisites: A grade of C or better in MECE 2304 and MATH 3349 or MECE 3450.

MECE 4315 Compressible Fluid Flow [3-0]

fall

Analysis of the flow of compressible fluids by means of the momentum equation, continuity equation and the laws of thermodynamics and some application of thermodynamic laws to incompressible fluids. Prerequisite: A grade of C or better in MECE 3315.

MECE 4316 Introduction to Acoustics [3-0]

spring

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: A grade of C or better in MECE 3315.

MECE 4320 Introduction to Mechatronics [2-3]

fall

This course will introduce students to the analysis, design and implementation of mechatronics systems. Mechatronics is an interdisciplinary engineering area that comprises the integration of mechanical engineering, electronics, control systems and computer science, which together contribute to design smart products and processes. Different topics in mechatronics, such as DC motors, stepper motors, H-bridges, PIC microcontrollers and others will be covered in class and complementary experiments will be performed in the laboratory. Prerequisites: A grade of C or better in MECE 3320.

MECE 4322 Introduction to the Practice of Finite Elements [3-0]

spring

This course is an introduction to finite element theory, and truss, beam and plate element formulation for linear static analysis. Application of boundary conditions, element convergence, isoparametric formulation and Gauss quadrature are also examined. This course is design-oriented, with a substantial component involving the use of a commercial software package. Prerequisites: A grade of C or better in MECE 3321 and MATH 3349 or MECE 3450.

MECE 4323 Combustion Engineering [3-0]

spring, summer

The topics covered in this course include: role of combustion in energy, environment and fire problems, thermodynamics of combustion (thermochemistry), fuels (gas, liquid, and solid), chemical kinetics, combustion of gaseous and vaporized fuels (flames), pollutant emissions, and modern measurements. Prerequisite: A grade of C or better in



MECE 2335

MECE 4325 Composite Material Design [3-0]  
fall

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. Students may not receive credit for both MECE 4325 and MECE 4345. Prerequisites: A grade of C or better in MECE2340 and MECE 3321.

MECE 4326 Introduction to  
Ceramics Engineering [3-0]  
spring

An introduction to the science and engineering of ceramic materials. Basic chemistry, structure and properties of engineering ceramics are covered. The unique, probability-based, design rules for engineering with these brittle materials are a special focus. Extensive time is devoted to special topics including electronic ceramics, distinctives of ceramic applications and bioceramics. Prerequisites: A grade of C or better in MECE 2340 and MECE 3321.

MECE 4327 Intermediate Materials  
Engineering [3-0]  
spring

The course explores advanced topics in materials science and engineering. Coverage includes ceramic materials, electronic and electrical properties of materials and the newest nano-scale materials. Prerequisites: A grade of C or better in MECE 2340 and MECE 3321.

MECE 4328 Polymer Engineering [3-0]  
spring

Introductory course designed to provide engineering students with a polymer materials science background that will enable them to design polymer components. Prerequisite: A grade of C or better in MECE 2340.

MECE 4329 Introduction to  
Nanotechnology [3-0]  
fall

Course designed to introduce nanotechnology and nanoscience as well as to study the wide variety of technologies and potential applications that fall under the nanotech umbrella. This course provides an opportunity for the students to foster creative thinking given the vast potential in the area. Prerequisite: A grade of C or better in MECE 2340.

MECE 4330 Intro to Phys Metallurgy [1-0]  
spring

Structure, properties, and selection of alloys; Significance of heat treatments and the effect on mechanical and other properties of materials; steel, phase transformation in steel (equilibrium, non-equilibrium), heat treatment of steel; Surface hardening; Aluminum alloys (heat treatable and non-heat treatable), Titanium, Magnesium, Zinc, Copper Alloys.

Prerequisite: A grade of C or better in MECE 2340 and MECE 3321

MECE 4350 Machine Elements [3-0]  
fall, spring

Stress and deflection analysis, failure theories, design of machine elements for static and fatigue strength, design of welded and bonded connections and computer modeling applications. Prerequisites: A grade of C or better in MECE 2304, MECE 2340 and MECE 3321.

MECE 4360 Solar Energy [2-3]  
spring

Fundamentals of solar energy system modeling, analysis, design and testing. Solar radiation, design and analysis of low and high temperature applications, passive and active solar thermal engineering, solar properties of materials, design of solar collectors, experimental testing of collector performance, energy storage systems. Prerequisites: A grade of C or better in MECE 3320 and MECE 3360.

MECE 4361 Senior Design Project I [1-6]  
fall, spring

This course is a preparation for a capstone design experience drawing from all previous coursework and involves engineering analysis methods, problem definition, assumptions and testing and reporting results. Classroom discussions will consider professional responsibility, ethics, technology and society, team building and lifelong learning. The project to be undertaken in Senior Design Project II (MECE 4362) will be selected, and a final design concept generated. The laboratory associated with this course will involve implementation of design methodologies and engineering science into a real-world design. Periodic progress reports and final oral and written reports will be required. Students may not receive credit for both MECE 4361 and ENGR 4161 and ENGR 4261. Prerequisite: Senior standing in engineering.

MECE 4362 Senior Design Project II [0-9]  
fall, spring

This course is a continuation of MECE 4361. Students will have the opportunity to conduct a comprehensive engineering design of the concept generated in MECE 4361 and report on the results. Synthesis using past coursework and outside reference material will be expected. Periodic progress reports and final oral and written reports will be required. Student may not receive credit for both MECE 4362 and ENGR 4362. Prerequisite: MECE 4361.

MECE 4365 Heating, Air Conditioning  
and Refrigeration Design [3-0]  
fall

Heating, ventilation and air conditioning of buildings for human comfort or industrial processes; design selection, construction equipment and refrigeration systems. Prerequisites: Credit for or enrollment in MECE 3360.

MECE 4380 Introduction to Computational  
Biomechanics [3-0]  
spring

This course is designed to provide an introduction to the anatomy and functional anatomy of the human upper and lower extremities. The material is covered in a modular, challenge-based format in which the investigation of the musculoskeletal mechanics of the various joints comprising the upper and lower extremities follows a specific sequence of learning activities designed to answer a challenge(s) concerning the joint(s). Challenges include: What strength is required to hold the iron cross position in gymnastics? How do your leg muscles activate when you walk? How high can you jump? Can you tear your ACL in a voluntary knee extension exercise? Prerequisite: A grade of C or better in MECE 2304.

MECE 4381 Orthopaedic Biomechanics [3-0]  
spring

Course designed to study loads and motion in the musculoskeletal system, tissue mechanics, structural analysis, bone implant systems, total knee replacements, articulating surfaces, introduction to computational packages in orthopedic biomechanics, computer aided design of implants, and finite element analysis. Prerequisites: A grade of C or better in MECE 2304 and MATH 3349 or MECE 3450.

## Music

MUS 1100 Rudiments of Music [1-0]  
fall, spring, summer

This course will be a study of the basic visual and aural skills of music and their application to music comprehension. Written concepts to be covered in the class include naming and identifying notes, major and minor scales and key signatures, simple and compound meters, intervals and triads. The class will also include introduction to aural dictation and keyboard skills.

MUS 1101 Guitar Ensemble [1-0]  
3102 [1-0]

fall, spring  
Instrumental music ensemble open by audition to students who play guitar. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.

MUS 1103 University Choir [1-0]  
3104 [1-0]

fall, spring  
Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.

MUS 1104 University Band [1-0]  
3105 [1-0]

fall, spring  
Instrumental music ensemble open by audition to all University students who play appropriate instruments. Each

course may be repeated any number of times; however, only four hours of each course will count toward a degree.

MUS 1105 Symphony Orchestra [1-0]  
3106 [1-0]

fall, spring  
Instrumental music ensemble open by audition to students who play appropriate instruments. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.

MUS 1106 Men's Chorus [1-0]  
4107 [1-0]

fall, spring  
Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 1107 Women's Chorus [1-0]  
4108 [1-0]

fall, spring  
Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 1109 Opera Workshop [1-0]  
4110 [1-0]

fall, spring  
An ensemble that stages scenes or complete works from opera and Broadway theater, open by audition to all University students. Each course may be repeated any number of times.

MUS 1111 Chamber Music [1-0]  
4112 [1-0]

fall, spring  
A course designated to promote collaborations within various chamber ensembles which include vocal and instrumental groups.

MUS 1112 Class Piano I [1-0]  
fall, spring

This class will provide a basis of keyboard musicianship with the objective of learning to read and play piano music and introduce the student to fundamentals of theory, musical structure and beginning piano literature. Block I of the Piano Proficiency Exam will be covered including scales, arpeggios, chord progressions and harmonization. (For music majors and minors only.)

MUS 1113 Class Piano II [1-0]  
fall, spring

This class will provide a basis of keyboard musicianship with the objective of learning to read and play piano music and introduce the student to fundamentals of theory, musical structure and beginning piano literature. Block II of the Piano Proficiency Exam will be covered including scales, arpeggios, chord progressions, harmonization and memorization of selected pieces. Prerequisite: Class Piano I. (For music majors and minors only.)

MUS 1114 Class Piano III [1-0]  
fall, spring  
This class will provide a basis of keyboard musicianship with the objective of learning to read and play piano music and introduce the student to fundamentals of theory, musical structure and beginning piano literature. Block III of the Piano Proficiency Exam will be covered including scales, arpeggios, transposition, reading an a cappella open score and sight reading. Prerequisite: Class Piano II. (For music majors and minors only.)

MUS 1115 Voice Class [1-0]  
fall, spring  
Vocal instruction for non-vocal music majors to include a foundation in healthy vocal technique, stage presence, an introduction to the elements of music and preparation of assigned songs. (For music majors and minors only.)

MUS 1207 Jazz Ensemble [2-0]  
3208 [2-0]  
fall, spring  
An instrumental music organization open to all college students who have an ability to play an appropriate instrument. Membership is determined by audition. Organization rehearses and performs popular, rock and jazz music for its own musical development and to satisfy requests on and off the campus. Each course may be repeated any number of times.

MUS 1208 Mariachi Ensemble [2-0]  
3210 [2-0]  
fall, spring  
Instrumental and vocal music organization open by audition to all college students who have the ability to sing or play an appropriate instrument. The organization rehearses and performs traditional mariachi music at numerous on- and off-campus occasions. Each course may be repeated any number of times.

MUS 1221 Class Piano [2-0]  
fall, spring  
Piano instruction for students who have no previous training in piano. Three class hours a week. Instructional fee: \$10. (For students not majoring or minoring in music.)

MUS 1223 Beginners Class Voice [2-0]  
fall, spring  
Vocal instruction for students who have no previous training in voice. May be used to satisfy the voice requirements for non-vocal music majors. Three class hours a week with outside preparation of materials for examination. Instructional fee: \$10.

MUS 1225 Beginning Guitar Class I [2-0]  
fall, spring  
Basic instruction in guitar to include music reading, tuning of the instrument, elementary chord structures and fingering and strumming techniques. An acoustic instrument is required for this course. Instructional fee: \$10.

MUS 1226 Beginning Guitar Class II [2-0]  
fall, spring  
Continuation of MUS 1225. An acoustic instrument is required for this course. Prerequisite: MUS 1225. Instructional fee: \$10.

MUS 1227 Level-Two Class Guitar [2-0]  
fall, spring  
Continuation of MUS 1226. An acoustic instrument is required for this course. Prerequisite: MUS 1226. Instructional fee: \$10.

MUS 1228 Level-Two Class Guitar [2-0]  
fall, spring  
Continuation of MUS 1227. An acoustic instrument is required for this course. Prerequisite: MUS 1227. Instructional fee: \$10.

Applied Music [2-0]  
fall, spring  
Private instruction in the concentration of the student's major area. Credit is earned on the basis of one hour lesson per week and two hours minimum daily practice. Applied music fee: \$60. Each course may be repeated four times for credit.

MUS 1231, 3232 Applied Piano  
MUS 1233, 3234 Applied Voice  
MUS 1235, 3236 Applied Percussion  
MUS 1237, 3238 Applied Harp  
MUS 1241, 3242 Applied Trumpet  
MUS 1243, 3244 Applied French Horn  
MUS 1245, 3246 Applied Trombone  
MUS 1247, 3248 Applied Baritone Horn  
MUS 1249, 3250 Applied Tuba  
MUS 1261, 3262 Applied Violin  
MUS 1263, 3264 Applied Viola  
MUS 1265, 3266 Applied Cello  
MUS 1267, 3268 Applied Double Bass  
MUS 1269, 3270 Applied Guitar  
MUS 1271, 3272 Applied Flute  
MUS 1273, 3274 Applied Oboe  
MUS 1275, 3276 Applied Clarinet  
MUS 1277, 3278 Applied Saxophone  
MUS 1279, 3280 Applied Bassoon

MUS 1307 Music Appreciation [3-0]  
fall, spring, summer  
An introductory course in the elements, forms and stylistic eras in music. This course meets the Other Humanities option (Group 4) of the University core curriculum requirements in humanities.

MUS 1308 Mexican Folk Music [3-0]  
fall, spring  
An historical survey of Mexican folk music from its origins in ancient Mexican cultures through modern times. Course content will include authentic audio and video tape recordings as well as performance of live music. This course meets the Other Humanities option (Group 4) of the University core curriculum requirements, Section A. Humanities.

- MUS 1309 World Music [3-0]  
fall, spring, summer  
A study of musical traditions of the world including Africa, North America, Japan, India, Central and South America. This course will cover the historical background of each country, elements of music and basic terminology, specific ensembles, musicians, instrument makers and other participants of the musical traditions studied, instrumentation, overall form and main characteristics of the music genres.
- MUS 2113 Aural Skills I [1-0]  
fall, spring  
A lab developing ear-training skills, including sight-singing and music dictation. Prerequisite: None
- MUS 2115 Aural Skills II [1-0]  
spring, summer  
A lab developing ear-training skills, including sight-singing and music dictation. This course is a continuation of MUS 2113. Prerequisite: MUS 2113 with a C or higher
- MUS 2120 Diction [1-0]  
spring of alternate (even-numbered) years  
This course will undertake in-depth study of the International Phonetic Alphabet, formancy and placement of vowel and consonant sounds, and principles of pronunciation in Italian, German, French and English through readings and standard art song literature.
- MUS 2122 Class Percussion [1-0]  
(Texas Common Course Number is MUSI 1188.)  
spring  
Class instruction in the rudiments of performance on and care of a variety of basic percussion instruments.
- MUS 2123 Class Brass [1-0]  
(Texas Common Course Number is MUSI 2168.)  
fall  
Class instruction in the rudiments of performance and care of brass instruments.
- MUS 2124 Class Woodwinds [1-0]  
(Texas Common Course Number is MUSI 2166.)  
fall  
Class instruction in the rudiments of performance and care of woodwind instruments.
- MUS 2125 Class Strings [1-0]  
spring  
Class instruction in the rudiments of performance and care of standard orchestral string instruments.
- MUS 2127 Song Literature [1-0]  
spring of alternate (odd-numbered) years  
This course covers two topics, a half semester each and may be team taught. The first involves song literature appropriate to young students in grades seven through 12, how to select a song for each grade level and how to select the proper key for individual students, including the male adolescent unchanged and changing voice. The second topic is a traditional brief survey of art songs in Italian, German and French. Students will be expected to make class presentations. Knowledge of diction and the International Phonetic Alphabet is recommended.
- MUS 2128 Instrumental Literature [1-0]  
fall, spring  
Study of instrumental literature for all performance levels: solos, chamber music, large ensembles, orchestral excerpts, and related materials.
- MUS 2201 Music Literature [2-0]  
fall, spring  
A survey of the literature of music for all media from earliest Greek music to contemporary works. A chronological study of the principal composers, their works and the development of music in relation to simultaneous historical developments. A course designed specifically for music majors and minors.
- MUS 2212 Music Theory I [2-0]  
fall, spring  
This course will include a study of standard notation, meter types, conducting gestures, tonality, intervals, scales, modes, key signatures, immoveable do<sup>1</sup> solfege, species counterpoint in quasi-16th century style, figured bass procedures, triads, seventh chord types and chord inversions. Prerequisite: MUS 1100 Rudiments of Music.
- MUS 2214 Music Theory II [2-0]  
spring, summer  
This course will include a study of resolving dominant sevenths, cadence types, embellishing tones, four-part (SATB) scoring, figured bass realization, chorale harmonization, dominant substitutions, predominant chords, six-four chord types, submediant and mediant triads, phrase and harmonic period structure and sequence types. Prerequisite: Music Theory I.
- MUS 3102 Guitar Ensemble [1-0]  
1101 [1-0]  
fall, spring  
Instrumental music ensemble open by audition to students who play guitar. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.
- MUS 3104 University Choir [1-0]  
1103 [1-0]  
fall, spring  
Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.
- MUS 3105 University Band [1-0]

1104		[1-0]	4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.
fall, spring			
Instrumental music ensemble open by audition to all University students who play appropriate instruments. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.			
MUS 3106	Symphony Orchestra	[1-0]	MUS 3122 Choral Repertoire [1-0]
1105		[1-0]	fall, spring
fall, spring			Sacred and secular choral literature from the Renaissance through the early baroque, covering Europe and England. Various genres and styles of major composers, including performance practice, rehearsals, and conducting. Prerequisites: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher
Instrumental music ensemble open by audition to students who play appropriate instruments. Each course may be repeated any number of times; however, only four hours of each course will count toward a degree.			
MUS 3111	Instrumental Pedagogy	[1-0]	MUS 3123 Brass Repertoire [1-0]
fall, spring			fall, spring
Explores the methods, materials, and objectives of effective instrumental pedagogy. Prerequisite: MUS 3214 with a grade of C or higher.			This course focuses intensely on large ensemble performance issues of brass players. Orchestral, band, and chamber repertoire will be rehearsed and studied in great detail as well as repertoire written expressly for brass instruments. Prerequisite: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.
MUS 3113	Aural Skills III	[1-0]	MUS 3124 Percussion Repertoire [1-0]
fall			fall, spring
A lab developing ear-training skills, including sight-singing and music dictation. This course is a continuation of MUS 2115. Prerequisite: MUS 2115 with a C or higher.			This course focuses intensely on large ensemble performance issues of percussion players. Orchestral, band, and chamber repertoire will be rehearsed and studied in great detail as well as repertoire written expressly for percussion instruments. Prerequisite: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.
MUS 3115	Aural Skills IV	[1-0]	MUS 3125 Vocal Pedagogy [1-0]
spring			fall, spring
A lab developing ear-training skills, including sight-singing and music dictation. This course is a continuation of MUS 3113. Prerequisite: MUS 3113 with a C or higher.			A comparative study of various pedagogical vocal methods. Examination of appropriate materials and repertoire for singers of all ages and abilities. Prerequisites: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.
MUS 3118	Piano Repertoire	[1-0]	MUS 3207 Instrumental Conducting [2-0]
fall, spring			fall, spring
An examination of the history of the development of the piano and its literature, including music written for early keyboard instruments which today is accepted as part of the piano repertoire. Emphasis on 18th, 19th, and 20th century repertory. Examination of style and structure and their impact on performance. Chamber music with piano, concerti, solo piano literature. Prerequisite: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.			This course is designed to develop the student's ability to conduct rehearsals and performances of instrumental ensembles. Topics of study include empathetic gestural communication, effective rehearsal techniques, ability to perceive and correct errors in ensemble performance, ability to deal with advanced literature and conducting problems, develop analytical techniques and musicianship. Prerequisite: Theory IV and successful completion of Block III of the Piano Proficiency Exam.
MUS 3119	Woodwind Repertoire	[1-0]	MUS 3208 Jazz Ensemble [2-0]
fall, spring			1207 [2-0]
An examination of the history of the development of the woodwind and its literature. Examination of style and structure and their impact on performance. Repertoire study includes chamber, orchestra, band, and solo literature. Prerequisite: 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher.			fall, spring
MUS 3120	String Repertoire	[1-0]	An instrumental music organization open to all college students who have an ability to play an appropriate instrument. Membership is determined by audition. Organization rehearses and performs popular, rock and jazz music for its own musical development and to satisfy requests on and off the campus. Each course may be repeated any number of times.
fall, spring			MUS 3209 Choral Conducting [2-0]
An examination of the history of the development of the strings and their literature. Examination of style and structure and their impact on performance. Repertoire study includes chamber, orchestra, and solo literature. Prerequisite:			

fall, spring

This course is designed to develop the student's ability to conduct rehearsals and performances of choral ensembles. Topics of study include empathetic gestural communications, effective rehearsal techniques, ability to perceive and correct errors in ensemble performance, ability to deal with advanced literature and conducting problems, develop analytical techniques and musicianship. Prerequisite: Theory IV and successful completion of Block II of the Piano Proficiency Exam.

MUS 3210 Mariachi Ensemble [2-0]  
1208 [2-0]

fall, spring

Instrumental and vocal music organization open by audition to all college students who have the ability to sing or play an appropriate instrument. The organization rehearses and performs traditional mariachi music at numerous on- and off-campus occasions. Each course may be repeated any number of times.

MUS 3212 Music Theory III [2-0]

fall, spring

This course will include a study of secondary functions, four-two chords, phrase rhythmic and motivic analysis, compound melody, modulation methods, binary and ternary forms, modal mixture, altered chords, Neapolitan sixth and augmented sixth chord types and composition projects. Prerequisite: Music Theory II.

MUS 3214 Music Theory IV [2-0]

fall, spring

This course is a study of extended tonal techniques including sets and set classes, serialism, 12-tone row matrix, chromatic modulation, 20th century techniques: modes, scales (whole-tone, pentatonic, octonic, blues) and composition projects. Also included is a study of formal organization ó variation forms, rondo, sonata forms, song form and concerto form. Prerequisite: Music Theory III.

MUS 3216 Elementary Music [2-0]

fall, spring, summer

Designed for music education majors planning to teach music in elementary schools, this course provides knowledge and experiences aimed at improving the student's understanding, skills and confidence as a teacher and musician. A major component of this course is the development of methods vital to the educator as a manager of classroom discipline and primary agent of learning in the music environment. Prerequisite: Junior standing.

MUS 3217 Secondary Music [2-0]

fall, spring, summer

Designed for music education majors planning to teach music in secondary schools, this course provides knowledge and experiences aimed at improving the student's understanding, skills and confidence as a teacher, musician and conductor. A major component of this course is the development of methods vital to the educator as a manager of classroom discipline and primary agent of learning in the

music environment. Prerequisite: Junior standing.

MUS 3221 Secondary Choral Methods [2-0]

fall, spring

This course is required for all choral and keyboard majors and is designed to prepare the student for successful entry-level teaching. Topics for study include the organization and administration of the secondary choral program, the male and female adolescent voice and techniques and materials for the teaching of music reading. Also included will be strategies for preparing students for University Interscholastic League sight reading contests. Teaching presentations require keyboard ability. Prerequisites: Completed Second-Year Theory (Theory IV) and Block III of the Piano Proficiency Examination.

MUS 3301 History of Music I [3-0]

fall

Advanced study of the evolution of musical art from its beginnings through the Baroque era. Prerequisite: MUS 2201 with a grade of C or higher.

MUS 3302 History of Music II [3-0]

spring

Continuation of MUS 3301. Prerequisite: MUS 3301 with a grade of C or higher.

MUS 3307 Women in Music [3-0]

as scheduled

The course introduces students to women composers in Western culture from Hildegard von Bingen (1098-1179) to the present. Course content includes biographical information, contributions to music and listening. This course provides an opportunity for students to learn about artistically creative women as well as the elements, structure and appreciation of music and musical styles.

MUS 3311 Essential Elements of Music I [3-0]

fall, spring, summer

Basic elements of music with appropriate techniques and principles of singing, playing, moving and listening to music. Not for music majors. This course meets the Other Humanities option (Group 4) of the University core curriculum requirements in Humanities. Prerequisite: Junior standing.

MUS 4107 Men's Chorus [1-0]

1106 [1-0]

fall, spring

Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 4108 Women's Chorus [1-0]

1107 [1-0]

fall, spring

Vocal music ensemble open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 4110 Opera Workshop [1-0]

1109 [1-0]  
fall, spring  
An ensemble that stages scenes or complete works from opera and Broadway theater, open by audition to all University students. Each course may be repeated any number of times.

MUS 4112 Chamber Music [1-0]  
1111 [1-0]  
fall, spring  
A course designated to promote collaborations within various chamber ensembles which include vocal and instrumental groups.

MUS 4201 Form and Analysis [2-0]  
spring  
Historical development of form and consideration of balance, symmetry and the principles of musical structure, analysis of phrase structure, simple part forms, variation forms and contrapuntal forms. Special consideration of the sonata-allegro form as found in the symphony, concerto and sonata. Prerequisite: MUS 2314.

MUS 4203 Orchestration and Arranging [2-0]  
fall  
Techniques of scoring and editing music for band, orchestra and instrumental ensembles, ranges, timbres, voicings and limitations of the instruments. Prerequisite: MUS 2314.

MUS 4308 Conducting II [3-0]  
fall  
Advanced baton technique. Continuation of instruction begun in MUS 3207, with emphasis on gestural communication and score study. Prerequisites: MUS 3207 and junior standing in music.

MUS 4212 Choral Arranging [2-0]  
Students learn homophonic and contrapuntal techniques for arranging choral music in two to eight voice parts, and study the characteristics of male and female voices in grades six through 12. Prerequisites: MUS 2314 and junior standing in music.

MUS 4309 Counterpoint [3-0]  
A study of tonal counterpoint in the eighteenth-century Baroque style. The main emphasis is on writing, though there is analysis. Most classes are conducted as workshops, with students and instructor working on exercises in eighteenth-century Baroque counterpoint. Prerequisite: MUS 3214 with a grade of C or higher

## Nursing

NURS 2301 Wellness [2-4]  
This course is designed to introduce the student to theories, concepts and practices related to wellness, with an emphasis on self-care. The student will have an opportunity to practice and demonstrate competency in selected self-care skills in a

simulated situation. Prerequisite: None.

NURS 3202 Pharmacology [2-0]  
This course introduces the student to pharmacological concepts and nursing responsibilities for drug therapy. Dosage calculations, safe administration and the use of the nursing process in the various methods of medication therapy are emphasized. Prerequisite: Consent of the BSN faculty.

NURS 3209 Research [2-0]  
This course enables the student to be a knowledgeable nursing research consumer. An orientation to the research process, various methods of inquiry and ethical considerations are presented to assist the student in critical evaluation and appropriate applications of research findings to practice. Prerequisites: Statistics; consent of the BSN faculty.

NURS 3307 Special Topics in Nursing [3-0]  
This course is designed to provide students the academic flexibility to study contemporary issues and practices in the nursing profession. The course may be repeated for credit when the topics vary. Prerequisite: Consent of the department.

NURS 3308 Clinical Concentration [1-8]  
This course provides an opportunity to study a selected area of clinical nursing. The student will utilize the nursing process while caring for clients in a supervised clinical site. Prerequisite: Consent of the BSN faculty.

NURS 3309 Women's Health Issues [3-0]  
This course is designed to introduce the student to theories, concepts, practices and issues related to women's health, with an emphasis on self care. Psychosociocultural, political and ethicolegal factors will be addressed and analyzed. Prerequisites: WMST 1301 and WMST 2301. Cross-listed as WMST 3309 Women's Health Issues.

NURS 3403 Client Assessment [3-4]  
This course allows the student to have an opportunity to apply psychological, social, and cultural concepts conjointly with anatomy/physiology and assessment skills used in evaluating the health status of clients. The student will also have an opportunity to use laboratory settings to practice cognitive, affective, and psychomotor skills in the systematic assessment of clients and their environment. Prerequisite: Admission to the BSN Program or consent of the BSN faculty.

NURS 3405 Mental Health Nursing [2-8]  
This course provides continued use of nursing concepts in the care of clients experiencing alterations in mental health. The nursing process is emphasized as it relates to altered psychosocial integrity. Prerequisites: NURS 3202, NURS 3403, NURS 3408, NURS 3604 and/or consent of the BSN faculty.

NURS 3407 Professional Mobility [4-0]  
This course is designed to assist the learner in developing a personal philosophy of professional nursing. Changes in the health care delivery system (sociocultural, economic,

political, ethicolegal, technological) and their impact on nursing will be described. Emphasis will be placed on the nursing process. Prerequisite: Admission to the BSN Program or consent of the BSN faculty.

NURS 3408 Health Promotion and Maintenance  
Across the Life Span [2.5-6]

summer

This course expands on the concepts of wellness, health promotion, health maintenance, health restoration and disease prevention across the life span. The nursing process and critical thinking skills will be applied as they relate to selected health alterations. Students will demonstrate competency in performing nursing skills in a variety of health care settings. Emphasis is placed on the application of the theoretical components to the teaching-learning process as it relates to health promotion activities. Prerequisites: NURS 3202, NURS 3403 and NURS 3604.

NURS 3604 Nursing Fundamentals [3-12]

This course introduces the student to fundamental health care concepts. The student will demonstrate competency in performing skills in a simulated situation prior to their application in a secondary health care setting. Prerequisites: NURS 2301 and admission to the BSN Program.

NURS 3608 Adult Health I [3-12]

This course provides for continued use of nursing concepts in providing care for two or more adults in a secondary health care setting. The nursing process is emphasized as it relates to alterations of selected body systems/functions. Prerequisites: NURS 3202, NURS 3403, NURS 3604 and NURS 3408.

NURS 4203 Issues in Nursing [2-0]

This course will enable the student to analyze issues, trends and problems in the delivery of nursing care. The student will identify an issue, trend or problem and evaluate its impact on the health care delivery system. Prerequisite: Consent of the BSN faculty.

NURS 4404 Community Health Nursing [2-8]

This course focuses on the role of the nurse in planning and providing primary care to individuals and groups in a community or rural setting. The course will emphasize complex sociocultural, political, economic and health issues within a community. The student will have an opportunity to use the nursing process to recognize and meet health needs of individuals and groups. Prerequisites: NURS 4601 and NURS 4602 or consent of the BSN faculty.

NURS 4601 Adult Health II [3-12]

This course provides continued use of nursing concepts in the care of two or more adult clients experiencing crisis and/or complex health alterations in a secondary health care setting. The nursing process is emphasized as it relates to alterations of selected body systems. Prerequisites: NURS 3403, NURS 3405, NURS 3408 and NURS 3608.

NURS 4602 Family Health Care [3-12]

This course focuses on the utilization of the nursing process in

the care of families throughout the perinatal cycle, childhood and adolescence. Theoretical concepts and selected research findings will be applied to developmental and familial concerns in both normal and high-risk settings. Prerequisites: NURS 3403, NURS 3405, NURS 3408 and NURS 3608.

NURS 4607 Leadership in Nursing [3-12]

This course focuses on theories of nursing leadership, organizational structures and management in relation to health care. The nursing process will be emphasized as it relates to leadership and management in clinical settings. The transition from student role to professional role will be explored. Prerequisites: NURS 4601 and NURS 4602 or consent of the BSN faculty.



# Physician Assistant Studies

## Didactic Year Courses

- PHAS 3321 Legal & Ethical Issues in Health Care [3-0]  
spring  
Explores medical jurisprudence and licensing in the state of Texas. 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, and 2) the ability to apply ethical and legal concepts to the analysis of the roles and responsibilities of the allied health professional. Prerequisite: Admission to the Physician Assistant Studies Program or permission of the instructor.
- PHAS 3337 Preventive Medicine and Community Health [3-0]  
fall  
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 the 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 to the Physician Assistant Studies Program or consent of instructor.
- PHAS 3401 Medical Human Anatomy and Physiology [3-3]  
summer I  
Introduction to medical anatomy and physiology. Emphasis on normal function of the human body, with clinical references and medical terminology. Investigates biochemical function, cell biology, cell membranes, cellular communication, homeostatic mechanisms, hormonal control and energy metabolism. Organ systems studies include: skeletal, muscular, cardiovascular and pulmonary. Laboratory experience enables the student access to cadaver dissections and computer assisted learning (CAL) modules. Prerequisite: Admission to the Physician Assistant Studies Program or consent of instructor.
- PHAS 3402 Medical Human Anatomy and Physiology II [3-3]  
summer II  
Continuation of PHAS 3401. Explores the digestive system, kidneys and electrolyte metabolism, reproductive systems and neurological mechanisms. Neuroanatomy and

physiology are discussed. Laboratory experience enables the student access to cadaver dissections and CAL modules. Prerequisites: PHAS 3401 and admission to the Physician Assistant Studies Program or consent of instructor.

- PHAS 3227 Patient Education [1-3]  
spring  
A laboratory workshop course that enables the student the opportunity to 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. Prerequisites: PHAS 3226 and admission to the Physician Assistant Studies Program or consent of instructor.
- PHAS 3211 Studies in the PA Profession [3-1]  
summer I  
Examines the history and concept of the physician assistant profession. Discusses issues that are relevant to professional practice and legal practice. Discussion of future trends in the profession. Prerequisite: Admission to the Physician Assistant Studies Program.
- PHAS 3225 Medical Interviewing [1-3]  
summer II  
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. Employs simulated patients and situations. Prerequisite: Admission into the Physician Assistant Studies Program or consent of instructor.
- PHAS 3226 Medical Psychiatry [2-0]  
fall  
Course material identifies normal, physical, social and psychological processes in distinguishing illness and injury. Explores psychiatric 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. Employs simulated patients and situations with a psychiatric focus. 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 3225.
- PHAS 3262 Clinical Clerkship [1-3]  
spring  
This course covers the indications, contraindications, step-by-step procedures and potential complications of multiple hands-on skills that are commonly performed by physician assistants in clinical practice. Examples include: phlebotomy, injections, IV therapy, urethral and nasogastric catheterization, pulmonary function testing, suturing, casting and splinting, various ENT procedures, electrical cardioversion and use of various types of monitoring devices and restraints. Students

will have an opportunity to scrub, gown and glove in an operating room environment. In addition, students will be required to successfully complete an Advanced Cardiac Life Support (A.C.L.S.) training course. Lecture series includes implementation and interpretation of electrocardiograms. The EKG interpretation section provides students with a systematic method of interpreting a 12-lead EKG with respect to rate, rhythm and blocks, electrical axis determination, hypertrophy, ischemia, injury, infarction, and miscellaneous drug, electrolyte, disease and pacemaker effects. Course also covers documenting in the medical record. Documents to be covered include the complete medical history, admission notes, SOAP notes, progress notes, procedural notes, discharge summaries, hospital orders, etc. Prerequisite: CLSC 3227.

PHAS 3207 Pathophysiology of Disease I [2-0]  
fall

This course provides a systematic approach to the physiology and pathophysiology of diseases. The general pathology of cell injury, inflammation, infection and neoplasia is presented along with the disease process of organ system including cardiovascular, pulmonary, dermatology and infectious diseases. Prerequisites: PHAS 3401 and PHAS 3402.

PHAS 3208 Pathophysiology of Disease II [2-0]  
spring

This course is the continuation of PHAS 3207 with emphasis on pathophysiology of renal, gastroenterology, endocrine and geriatrics. Prerequisite: PHAS 3207.

PHAS 3228 Pharmacology I [2-0]  
fall

This course represents a broad survey of the general principles of pharmacology. Included are the principles of pharmacokinetics and pharmacodynamics, the mechanisms of action, toxicities and interactions of specific drugs and drug groups and an introduction to medical therapeutics. The physiologic basis and clinical characteristics of disease states relative to pharmacologic therapy will also be discussed. The objective of the course is to lay a cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice. Prerequisite: PHAS 3207 and PHAS 3208.

PHAS 3329 Pharmacology II [3-0]  
spring

A continuation of PHAS 3228. Exposes the student to knowledge of conventionally used chemotherapeutic agents and efficacy of use. 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: PHAS 3228.

PHAS 3407 Client Patient Evaluation [3-3]  
fall

Instructs the student in the proper use of instruments and techniques used in performing a physical examination.

Correlates information acquired in human anatomy and physiology with application to the physical exam. 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. Recording the clinical data and oral presentation will be stressed. Prerequisites: PHAS 3402 and PHAS 3225.

PHAS 3318 Principles of Clinical Medicine I [2-3]  
fall

This is an introduction to clinical medicine with emphasis in pathophysiology disease, differential diagnosis and integration of physical exam with diagnostic laboratory procedures. Integration of pharmacology principles with disease management is also emphasized. The fall semester will cover topics in cardiovascular, pulmonary, hematology, dermatology, infectious diseases and pediatrics. Prerequisites: PHAS 3401 and PHAS 3402.

PHAS 3319 Principles of Clinical Medicine II [2-3]  
spring

This course is the continuation of PHAS 3318 with coverage of topic to include endocrinology, nephrology, gastroenterology, geriatrics and ob/gyn. Prerequisite: PHAS 3318.

PHAS 3115 Medical Research and Statistics [1-0]  
spring

This is an introduction to clinical medicine with emphasis on research of pathophysiology of diseases, differential diagnosis and integration of physical exam with diagnostic laboratory procedures.

CLSC 3227 Clinical Laboratory Methods [1-3]  
fall

Lecture, 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. Prerequisite: PHAS 3402. Corequisites: PHAS 3401 and PHAS 3402.

PHAS 4201 Clinical Elective [2-0]  
spring

This course is available to enhance the physical exam and history-taking skills. It requires a clinical rotation site assigned by the faculty.

#### Clinical Year Courses

PHAS 4431 General Pediatrics I [4-0]  
as scheduled

Four-week general pediatric rotation that gives the student the opportunity to: 1) elicit and record a complete pediatric history; 2) perform a complete pediatric 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 4432 General Pediatrics II [4-0]  
as scheduled

Four-week general pediatric rotation that is a continuation of PHAS 4431. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4433 Obstetrics & Gynecology I [4-0]  
as scheduled

Four-week obstetrics and gynecology rotation that gives the student the opportunity to: 1) elicit, organize, record and present a complete database 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; and 4) instruct patients on matters of common gynecological problems. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4434 Obstetrics & Gynecology II [4-0]  
as scheduled

Four-week obstetrics and gynecology rotation that is a continuation of PHAS 4433. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4435 General Surgery I [4-0]  
as scheduled

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 of the phases 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 4436 General Surgery II [4-0]  
as scheduled

Four-week surgery rotation that is a continuation of PHAS 4435. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4440 General Medicine I [4-0]  
as scheduled

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 4441 General Medicine II [4-0]  
as scheduled

Four-week general medicine rotation that is a continuation of PHAS 4440. Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4442 Emergency Medicine Rotation [4-0]  
as scheduled

Four-week rotation 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 presented 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 4443 Clinical Elective [4-0]  
as scheduled

The 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; and 3) understand how to better serve 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. Prerequisites: PHAS 4432, PHAS 4434, PHAS 4436 and PHAS 4441.

## Philosophy

PHIL 1305 Critical Thinking [3-0]  
fall, spring, summer

This class will investigate what it is to think critically. Strong emphasis will be placed on the following: reading critically, analyzing texts, identifying and systematically representing arguments, recognizing formal and informal fallacies and rationally evaluating what is heard and read.

PHIL 1310 Introduction to Philosophy [3-0]  
(Texas Common Course Number is PHIL 1301.)  
as scheduled

An introduction to some of the major philosophical questions that have intrigued mankind over the centuries. This will be done through an examination of the thought of some of the most important figures in the history of philosophy from the early Greeks to modern times. Credit Restriction: Credit may be received in only one of PHIL 1310 or PHIL 1387.

PHIL 1320 Introduction to Logic [3-0]  
(Texas Common Course Number is PHIL 2303.)  
as scheduled

The subject matter of this course will be clear and effective thinking. It will examine principles for correct reasoning and ways to distinguish good reasoning from bad, and it will consider the kinds of mistakes in reasoning that are most commonly made in everyday life. Credit Restriction: Credit may be received in only one of PHIL 1320 or PHIL 1388.

PHIL 1321 Introduction to Formal Logic [3-0]  
fall, spring, summer

This class is an introduction to some of the formal techniques available for evaluating the correctness or incorrectness of arguments. Formal techniques likely to be discussed include: symbolization in propositional logic, parsing trees, truth tables or truth trees, natural deduction in propositional logic, Venn diagrams and the probability calculus. Restriction: Credit may be received in only one of PHIL 1320 or PHIL 1321. Prerequisite(s): MATH 1334 with a grade of C or better, or ACT math score 20 or better, or THEA math score 260 or better, or ACCUPLACER College Level Mathematics part score 70 or better.

PHIL 1387 Introduction to Philosophy  
(Honors Plan) [3-0]  
as scheduled

An introduction to philosophical questions through an examination of major figures and themes in the history of philosophy from ancient to modern times. Credit Restriction: Credit may be received in only one of PHIL 1310 or PHIL 1387. Prerequisite: Admission to Honors Studies Program or by permission of the program director.

PHIL 1388 Introduction to Logic  
(Honors Plan) [3-0]  
as scheduled

An introduction to the fundamentals of clear and effective thinking through an examination of the principles of correct reasoning, the structure of knowledge and common obstacles to rational thought. Credit Restriction: Credit may be received in only one of PHIL 1320 or PHIL 1388. Prerequisite: Admission to Honors Studies Program or by permission of the program director.

PHIL 2330 Ethics [3-0]  
(Texas Common Course Number is PHIL 2306.)  
as scheduled

This course will be concerned with human values: our own and those of other people. It will ask where those values come from and how we can know they are worth something, and it will examine several related questions such as personal

freedom and the meaningfulness of human life.

PHIL 2350 Introduction to Social  
and Political Philosophy [3-0]  
(Texas Common Course Number is PHIL 2307.)  
fall, spring, summer

A critical introduction to the current and historical relationships that define contemporary society and politics. Topics may include democracy, capitalism, communism, anarchism, political authority, norms, justices, rights, pluralism and rights.

PHIL 2370 Eastern Thought [3-0]  
as scheduled

An analysis of the major movements in Eastern philosophy and religion and their relationship to basic philosophical developments in the West. This course will examine systems of thought and culture such as Buddhism, Hinduism, Confucianism, Taoism and Shinto.

PHIL 2380 Latin American Philosophy [3-0]  
as scheduled

An examination of some of the most important and influential contributions to Latin American thought. Material to be studied will be drawn from both past and contemporary sources. Topics might include Mayan and Aztec philosophy, Iberian Scholasticism, Latin American Positivism, Liberation Theology, Latin American Feminism, and Hispanic/Latino Identity.

PHIL 2390 Professional Ethics [3-0]  
as scheduled

This course will employ the tools of ethical theory to examine moral issues and problems facing professionals in such fields as business, industry and technology, medicine, social work, criminal justice and law. The content of individual sections of this course may be derived from any of the fields listed above or from a combination of them, depending on student need.

PHIL 2391 Professional Ethics: Biomedical [3-0]  
fall, spring, summer

This course will address the application of moral theories, ethical principles and professional codes to ethical dilemmas faced by professionals in health care or research. Topics covered may include, but are not limited to, euthanasia, conflicts of interest, physicians as researchers, distribution of scarce resources and the impact of theories like moral relativism and psychological egoism on the application of ethical theory.

PHIL 2392 Professional Ethics: Business [3-0]  
fall, spring, summer

This course will address the application of moral theories, ethical principles and professional codes to ethical dilemmas faced by business professionals, employers and employees. Topics covered may include, but are not limited to, conflicts of interest, globalization, duties to future generations, stakeholder theory, the value of labor and the impact of theories like moral relativism and psychological egoism on the

application of ethical theory.

PHIL 2393 Professional Ethics: Engineering [3-0]

fall, spring, summer

This course will address the application of moral theories, ethical principles and professional codes to ethical dilemmas faced by business professionals, employers and employees. Topics covered may include, but are not limited to, whistleblowing, integrity, honesty, liability and the impact of theories like moral relativism and psychological egoism on the application of ethical theory.

PHIL 3305 Philosophical Methods [3-0]

fall, spring, summer

This class will teach the sophisticated critical thinking and reasoning skills, research and writing methods that are expected of advanced students of philosophy. Particular emphasis will be placed on how to construct undergraduate research papers in philosophy using online and other professional resources.

PHIL 3310 Research Ethics: Biology [3-0]

fall, spring, summer

A survey of ethical issues involving research methods for students in pre-Med, biomedical or bioengineering programs, or students who intend to pursue graduate study in these areas. The course will examine the professional practices of medicine and biomedical research, review the variety of ethical concerns that can arise in these practices, and offer ethically appropriate strategies for resolving those concerns. A research paper, analysis of relevant case studies, and classroom presentations form part of the expectations for students who take this course. Prerequisite: Consent of Instructor.

PHIL 3320 Symbolic Logic [3-0]

fall, spring, summer

This class will be a continuation of Philosophy 1321, Introduction to Formal Logic, and will be concerned with the principles and methods used in symbolic logic to distinguish between valid and invalid arguments. Prerequisite: PHIL 1321 or consent of instructor.

PHIL 3330 Aesthetics [3-0]

fall, spring, summer

This course will address classic issues in the philosophy of art and beauty and the philosophy of art and art criticism. These issues will be illustrated from the fine arts and contemporary media ó literature, drama, music, painting, film and television. Course may focus on a specific genre of art.

PHIL 3331 Philosophy of Film [3-0]

fall, spring, summer

Examines philosophical issues through the lens of film. Possible topics include image and reality, representation and culture, beauty, politics, morality and aesthetic theory.

PHIL 3359 History of Philosophy: Ancient [3-0]

fall, spring, summer

This course will discuss the development of Western philosophy (primarily in Ancient Greece) from the pre-

Socratics through to Aristotle. Emphasis is likely to be placed on Plato and Aristotle.

PHIL 3360 History of Philosophy: Medieval [3-0]

fall, spring, summer

This course will survey the major figures and issues of medieval philosophy in their historical context. Philosophers from the Christian, Jewish and Islamic traditions will be examined. Possible topics include realism, nominalism, Augustinianism and scholasticism.

PHIL 3361 History of Philosophy: Modern [3-0]

as scheduled

A study of the history of philosophy from the Renaissance through the 18th century, with particular emphasis on Descartes, Spinoza, Leibniz, Hobbes, Locke, Berkeley, Hume and Kant. Prerequisite: Three hours of philosophy or consent of instructor.

PHIL 3362 From Kant to Nietzsche [3-0]

fall, spring, summer

This course will address major trends and figures in the development of philosophy in the 19th century. Topics likely to be discussed are German Idealism, Romanticism, dialectical materialism, existentialism and pragmatism as manifest in the thought of Hegel, Kierkegaard, Marx, Pierce and James.

PHIL 3363 Existentialism and Phenomenology [3-0]

fall, spring, summer

This course will address major figures and issues in existentialism and phenomenology. Potential topics to be covered are the historicity of values, the nature of the subject/object distinctions, life, death, meaning and authenticity. Some possible figures for study are Husserl, Bataille, Nietzsche, Sartre, Heidegger, Merleau-Ponty.

PHIL 3364 Contemporary Continental Philosophy: Deconstruction, Postmodernism and Critical Theory [3-0]

fall, spring, summer

This course addresses topics in post-Heideggerian continental philosophy. Some potential movements and thinkers include deconstruction (Derrida), genealogy (Foucault), postmodernism (Lyotard, Agamben, Ranciere, Balibar), hermeneutics (Gadamer) and critical theory and contemporary Marxism (Benjamin, Adorno, Courdieu, Hardt, Negri, Laclau, Mouffe).

PHIL 3365 Contemporary Analytic Philosophy [3-0]

fall, spring, summer

This class is a study of the development of analytic philosophy during the 20th century. Authors whose work might be discussed include Frege, Russell, Carnap, Quine, Putnam, Davidson, Strawson, Grice, Dummett, Lewis, Kripke, Moore, Chisholm, Rawls, Williams, Austin and Sellars.

- PHIL 3370 Philosophy of Religion [3-0]  
as scheduled  
A philosophic study of the nature and varieties of religious experience, the meaning and validation of religious belief, the act of faith, the nature and existence of God, the problem of evil, mysticism, immortality, religious belief and moral conduct, religion and myth, and religion and culture. Prerequisite: Three hours of philosophy.
- PHIL 3376 Feminist Theories [3-0]  
as scheduled  
This course is designed to examine the variety of existing feminist theories and their roots in diverse modes of philosophical analysis. It will explore how various feminist theories are consonant with or diverge from their base theories and from each other and whether such theories are still cogent. Methodology will incorporate both feminist pedagogy and traditional philosophical analysis, including feminist critique of the tradition. Prerequisite: PHIL 1310.
- PHIL 3377 Chicana and Latino Feminism [3-0]  
fall, spring, summer  
This course will study the rich feminist philosophies of Latin America, the U.S./Mexico borderlands, and may include local and regional authors like Anzaldua, Hurtado, and Cisneros. Prerequisite: None
- PHIL 3379 Chicana and Latin American Feminisms [3-0]  
as scheduled  
This course is designed to explore Chicana and Latin American forms of feminisms, including their philosophies, history, and social movements. May be repeated twice for credit.
- PHIL 3381 Latin American Positivism [3-0]  
fall, spring, summer  
This course will study the main philosophic movement in Latin America from the early 1800's to the 1900's, Latin American Positivism. The course will focus on Positivism as developed in Argentina, Brazil, Chile, México, and Perú. The course may include discussion of Francisco Bilbao, Manuel González Prada, Víctor Raúl Hay de la Torre, Eugenio María de Hostos, José Victoriano Lastarria, José Ingenieros, José Carlos Mariátegui, José Martí, and Justo Méndez Sierra. Prerequisite: None
- PHIL 3390 Philosophy of Law [3-0]  
fall, spring, summer  
Examination of the institution of law, legal concepts, legal reasoning, and the legal process. Topics may include the nature of law; the moral limits of the criminal law; legal rights; liberty, justice, and equality; punishment; responsibility; the private law (property, contract, and tort); constitutional law; and feminist jurisprudence. Prerequisite: None
- PHIL 4310 Epistemology [3-0]  
fall, spring, summer  
This course will consider questions about the nature, criteria and sources of (epistemic) justification and knowledge. For example, under what circumstances do perception, memory, consciousness, reason and testimony endow us with justified beliefs? How is context relevant to justification and knowledge? Is there such a thing as religious knowledge? Is skepticism about the external world a serious threat? Does knowledge have a foundation?
- PHIL 4320 Philosophy of Science [3-0]  
as scheduled  
A philosophical examination of the assumptions and methodology of scientific inquiry, with examples drawn from the natural sciences. This course will consider the structure, meaning, confirmation and use of scientific theories, as well as the philosophical implications of current theories in science. Previous course number: PHIL 3325; a student may receive credit in only one course. Prerequisite: Three hours of philosophy or consent of instructor.
- PHIL 4330 Metaphysics [3-0]  
fall, spring, summer  
Metaphysics investigates the nature, constitution and structure of reality. In this class we shall discuss some of the major problems in metaphysics. Topics might include existence, modalities and possible worlds, universals and particulars, the structure of concrete particulars, space and time, events, identity across time and realism and anti-realism.
- PHIL 4340 Philosophy of Mind [3-0]  
as scheduled  
A study of consciousness, emphasizing the nature of awareness and experience. Topics concerning the capacities and creative powers of mind will be examined in theories based on physical, functional and metaphysical arguments. Previous course number: PHIL 3341; a student may receive credit in only one course. Prerequisite: Three hours of philosophy or consent of instructor.
- PHIL 4350 Moral Theory [3-0]  
fall, spring, summer  
This course will consider questions about the foundations of moral justification, the nature of moral reasons and whether a convincing case can be made for objectivity in moral judgments. A number of options in ethical theory might be discussed, including moral realism, metaethical relativism, noncognitivism, naturalism, sensibility theories, constructivism and practical reasoning theories.
- PHIL 4351 Topics in Applied Ethics [3-0]  
fall, spring, summer  
This course will address the application of ethical theory to contemporary moral problems and the types of issues that arise in such applications. The particular field of applied ethics may vary between areas such as business ethics, biomedical ethics, environmental ethics, research ethics, etc. May be repeated for up to nine credit hours with the consent of the instructor.
- PHIL 4355 Social Political Philosophy [3-0]

fall, spring, summer

A critical examination of the current and historical relationships that define contemporary society and politics. Topics may include democracy, capitalism, communism, anarchism, political authority, rights, justice, power, pluralism, and tyranny. Prerequisite: None

PHIL 4380 American Philosophy [3-0]

fall, spring, summer

This course will explore the diverse traditions, ideas, and thinkers that have shaped American culture in the past and today. Important works from Native American, African American, Latin American, and Puritan sources may be examined, as well as works from such intellectual movements as Transcendentalism and Pragmatism. Prerequisite(s): None

PHIL 4390 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 nine hours credit as content changes. Prerequisite: Three hours of philosophy or consent of instructor.

## Physics

PHYS 1401 General Physics I [3-3]

(Texas Common Course Number is PHYS 1401.)

fall, spring, summer

An algebra-based introduction to the principles of mechanics, fluids, heat, waves and sound for students fulfilling a natural science requirement and premedical students. The course includes three laboratory hours a week to emphasize course concepts. Prerequisite: MATH 1340. Recommended: Credit for or concurrent enrollment in MATH 1356. \$4 laboratory fee.

PHYS 1402 General Physics II [3-3]

(Texas Common Course Number is PHYS 1402.)

fall, spring, summer

A continuation of PHYS 1401 covering the principles of electricity, magnetism, light and modern physics. The course includes three laboratory hours a week to emphasize course concepts. Prerequisite: PHYS 1401. \$4 laboratory fee.

PHYS 2401 Physics for Scientists and Engineers I [3-1]

(Texas Common Course Number is PHYS 2425.)

as scheduled

A calculus-based study of mechanics, wave motion, sound and fluids for physics and engineering majors. The course includes three laboratory hours a week to emphasize course concepts. Prerequisite: MATH 1401 with concurrent

enrollment in MATH 1402. \$4 laboratory fee.

PHYS 2402 Physics for Scientists and Engineers II [3-3]

(Texas Common Course Number is PHYS 2426.)

fall, spring, summer

A continuation of PHYS 2401 covering the principles of electricity, magnetism, electromagnetic wave phenomena and optics. The course includes three laboratory hours a week to emphasize course concepts. Prerequisite: PHYS 2401. \$4 laboratory fee.

PHYS 3101 Junior Laboratory Research [0-3]

fall, spring, summer

This course is designed to introduce the student to contemporary methods in scientific research. Students will have to opportunity to work directly with faculty on a directed individual research project. The course also acquaints students with the scientific publication process and literature searches. Prerequisites: PHYS 2402 and consent of instructor. \$4 laboratory fee.

PHYS 3102 Junior Laboratory Research [0-3]

fall, spring, summer

A continuation of PHYS 3101. Prerequisites: PHYS 3101 and consent of instructor. \$4 laboratory fee.

PHYS 3301 Electromagnetic Theory I [3-0]

fall odd years

This course provides an introduction to vector field theory. The differential form of Maxwell's equations governing electromagnetic phenomena are introduced, along with techniques for solving the resulting differential equations. Topics covered include electrostatics and electric fields in matter along with magnetostatics and magnetic fields in matter.

Prerequisites: PHYS 2402 and MATH 2401.

PHYS 3302 Electromagnetic Theory II [3-0]

spring

This course is a continuation of the exploration of electromagnetic theory begun in PHYS 3301-Electromagnetic Theory I. This course provides an introduction to electrodynamics. Topics include electromagnetic waves and optics, wave guides and transmission lines, potentials and fields, radiation and relativistic dynamics. Prerequisite: PHYS 3301

PHYS 3303 Thermodynamics [3-0]

fall even years

This course is designed to provide a basic understanding of the laws of thermodynamics. Concepts covered include basic ideas of conventional thermodynamics including internal energy, entropy and interactions between systems. The course acquaints students with models and equations of state for various systems. Prerequisites: PHYS 2402 and MATH 2401.

PHYS 3305 Classical Mechanics [3-0]

fall even years

This course is designed to provide a rigorous understanding

of classical dynamics. Concepts covered include the motion of a particle to a system of particles in one, two and three dimensions; detailed treatment of the conservation laws, rigid body motion and rotating systems. It introduces students to Lagrange and Hamiltonian dynamics and noninertial reference frames. Prerequisites: PHYS 2402 and MATH 2401.

PHYS 3306 Introduction to BioPhysics [3-0]  
fall odd years

Topics include the levels of organization within biological systems, flow of energy in living things including an introduction to the thermodynamic systems utilized in biological research, and an introduction to the physical techniques used in the study of biological systems.

Prerequisites: PHYS 1401 and 1402.

PHYS 3307 Introduction to Solid State Physics [3-0]

spring even years

An introduction to the field of solid state physics.

Topics includes crystal structure, bonding in condensed matter, X-ray diffraction, crystal binding energies, free electron theory of solids, energy bands, boundaries and interfaces, and mechanical, electronic, optical, magnetic and superconducting properties of materials. Prerequisite: PHYS 2402.

PHYS 3308 Introduction to Nanotechnology [3-0]  
spring

This course is an introduction to nanoscale physics in order to understand nanoscience and nanotechnology. It will investigate size effects and fabrication methods of nanoscale systems. Topics covered in the course include the role of size effects on the physical, chemical and biological properties of nanoparticles, nanotubes and catalysts and self-assembly approaches for nanoparticle-biomaterials hybrid systems in nanobiotechnology and medical treatment. The course will also examine the uses of nanotechnology and the impact it has on our society. Prerequisites: MATH 1340 and either one of the following courses: PHYS 1402, PHYS 2402, PSCI 1422, CHEM 1302, BIOL 1402.

PHYS 3309 Introduction to Medical Imaging [3-0]  
spring

This course will look at the wide range of techniques used for medical imaging and the underlying physical principles they are based on. This course is an introduction to medical diagnosis imaging techniques, e.g. magnetic resonance imaging, scanning tomography and general imaging by x-rays. Topics covered also include the interaction of light on living cells and use of ionizing radiation in diagnosis and therapy. Prerequisites: MATH 1340 and either one of the following courses: PHYS 1402, PSCI 1422, CHEM 1302 or BIOL 1402.

PHYS 3310 Radiation Biophysics [3-0]  
spring

This is an advanced course in radiation biophysics. It will cover radiation chemistry, radiation carcinogenesis, genetic effect of ionizing radiation, metabolism and biological

effects of deposited radionuclides, radiation inactivation of enzymes, nucleic acids and viruses, biological effects of ultraviolet radiation, photosensitization, radiation protection and sensitization, radiation effects in vivo, cancer radiation therapy and phototherapy. Prerequisites: PHYS 1402 or PHYS 2402.

PHYS 3311 Mathematical Methods in Physics [3-0]  
fall

This course provides an introduction to the mathematical tools used to describe physical systems and techniques for solving the resulting systems of equations. Topics may include vector analysis, complex analysis, Fourier series and linear algebra. Prerequisite: MATH 3349

PHYS 3402 Modern Physics [3-3]  
spring odd years

Prerequisite: PHYS 2402. \$4 laboratory fee.

This course provides an introduction to 21st century physics. Topics may include a wide range of modern physics subjects such as atoms, molecules, clusters and nanomaterials, theory of solids. Also described will be the rudiments of quantum mechanics with simple applications, relativity, radioactive decay, particle physics, modern optics, and other recent research areas. Laboratory exercises illustrate key course principles and reproduce historic experiments.

PHYS 3404 Optics [3-3]  
spring odd years

This course is designed to provide a basic understanding of physical optics. Concepts covered include diffraction, interference, polarization, geometrical optics and spectroscopy. The course includes three laboratory hours a week to emphasize course concepts. Prerequisites: PHYS 2402 and MATH 2401. \$4 laboratory fee.

PHYS 4101 Senior Laboratory Research [0-3]  
fall, spring, summer

The course is designed to acquaint the student with advanced research techniques. The student will have the opportunity to perform experiments of greater complexity and difficulty than those in Junior Laboratory. Students work directly with faculty on a directed individual research project. Prerequisites: PHYS 3101 and consent of instructor. \$4 laboratory fee.

PHYS 4102 Senior Laboratory Research [0-3]  
fall, spring, summer

A continuation of PHYS 4101. Prerequisites: PHYS 4101 and consent of instructor. \$4 laboratory fee.

PHYS 4103 Senior Laboratory Research [0-3]  
fall, spring, summer

A continuation of PHYS 4102. Prerequisites: PHYS 4102 and consent of instructor. \$4 laboratory fee.

PHYS 4104 Research Laboratory in



## Physics Education [0-3]

fall, spring, summer

This course is designed to acquaint students with elements of the research field. It includes the study, understanding and the design of modern topics in physics and classroom demonstrations. The methodology of effective presentations will also be developed and emphasized. The student will have the opportunity to learn to develop a project which will be presented in a designated UTPA course or conference for student appeal and its ability to convey a principle of physics. Prerequisite: PHYS 1402 or equivalent.

PHYS 4303 Quantum Mechanics I [3-0]  
spring even years

This course provides an introduction to the basic ideas of quantum mechanics. Concepts to be covered include wave functions, operator-eigenvalue formalism, bound states of the potential well and the harmonic oscillators. Selected examples such as the solutions of the hydrogen atom, angular momentum and spin will also be discussed. Prerequisites: PHYS 3305 and PHYS 3311.

PHYS 4304 Quantum Mechanics II [3-0]  
spring

This course explores more advanced concepts in Quantum Mechanics. Topics to be covered include time-dependent and time-independent Schrodinger equations, addition of angular momenta, perturbation theory, relativistic quantum theory and group theory and quantum mechanics. Applications to physics and chemistry will also be explored. Prerequisite: PHYS 4303

PHYS 4305 Statistical Mechanics [3-0]  
spring

This course explores the development of the macroscopic thermodynamical properties of physical systems from the behavior of their microscopic constituents. Topics include the partition function and its applications: entropy of an ideal gas, Maxwell velocity distributions and heat capacities of solids. Other topics will include blackbody radiation, Fermi-Dirac and Bose-Einstein statistics. Prerequisite: PHYS 3303 and PHYS 3311

PHYS 4308 Seminar in Physics [3-0]  
spring even years

Investigations of problems and progress in contemporary physics will be undertaken, based on the expertise of the instructor. Course may be repeated once for credit. Prerequisites: One year of physics and consent of instructor.

PHYS 4309 Nuclear and Particle Physics [3-0]  
fall even years

A study of atomic nuclei and the fundamental constituents of matter. Topics include nuclear structure, natural and artificial radioactivity, nuclear reactions, fission, fusion, particles, and their interactions, standard model of particle physics, particle accelerators, cosmic rays, experimental methods and examples from current research topics. Prerequisite: PHYS 3402.

PHYS 4310 Introduction to Atomic Physics [3-0]  
fall odd years

This elective course will introduce to the undergraduate students a variety of topics in atomic and nuclear physics such as properties of atoms, atomic models, the periodic system of elements, modern atomic spectroscopy, quantum mechanical probabilities, properties of stable nuclei, nuclear decays and excitations, nuclear reactions, nuclear models, particles, applications of nuclear techniques and nuclear and atomic energy. Prerequisite: PHYS 4303.

## Political Science

POLS 1333 Introduction to Political Science [3-0]  
(Texas Common Course Number is GOVT 2304.)  
fall, spring

Emphasis on political fundamentals, public law, theory and organization of the modern state, political dynamics and institutions. Open to freshmen. (Does not meet University core curriculum or state-mandated American and Texas government requirement.)

POLS 2313 U.S. and Texas  
Government and Politics [3-0]  
(Texas Common Course Number is GOVT 2301.)  
fall, spring, summer

The origins and development of the American governmental system; U.S. and Texas constitutions; federal, state and interstate relations; the individual as a citizen, person and voter; political parties; civil rights and the judicial system. Fulfills three hours of the legislative requirements of six hours of American and Texas government. Open to freshmen. Credit Restriction: Credit may be received in only one of POLS 2313 or POLS 2387.

POLS 2314 U.S. and Texas  
Government and Politics [3-0]  
(Texas Common Course Number is GOVT 2302.)  
fall, spring, summer

A functional study of the U.S. and Texas constitutions and governments in relation to the legislative, executive and administrative processes; and a study of the policy process, including domestic and foreign policy areas. Fulfills three hours of the legislative requirements of six hours of American and Texas government. Open to freshmen. Credit Restriction: Credit may be received in only one of POLS 2314 or POLS 2388.

POLS 2331 Statistics in Political Science [3-0]  
fall, spring, summer

Descriptive and inferential statistical methods as applied to the study of political issues and phenomena will be examined. Topics to be covered include data gathering, probability theory, hypothesis testing, and the linear regression model, with an emphasis on both parametric and

non-parametric statistical methods. At the conclusion of the course, students will be able to conduct a statistical analysis of a research question in Political Science. Prerequisite: POLS 2313 and 2314, MATH 1340.

POLS 2334 Political Economy [3-0]  
as scheduled

This course examines various economic models including private enterprise, capitalism, state capitalism and socialism; the impact of monetary and fiscal policy on the economy; and alternative viewpoints as to the appropriate extent of government regulation of the economy. Prerequisites: POLS 2313 AND POLS 2314.

POLS 2387 U.S. and Texas Government  
and Politics (Honors Plan) [3-0]

fall

The origins and development of the American governmental system; U.S. and Texas constitutions; federal-state and interstate relations; the individual as a citizen, person and voter; political parties; civil rights and the judicial system. Fulfills three hours of the legislative requirements of six hours of American and Texas government. Credit Restriction: Credit may be received in only one of POLS 2313 or POLS 2387. Prerequisite: Admission to Honors Studies or by invitation.

POLS 2388 U.S. and Texas Government  
and Politics (Honors Plan) [3-0]

spring

A functional study of the U.S. and Texas constitutions and governments in relation to the legislative, executive and administrative processes; and a study of the policy process, including domestic and foreign policy areas. Fulfills three hours of the legislative requirement of six hours of American and Texas government. Credit Restriction: Credit may be received in only one of POLS 2314 or POLS 2388. Prerequisite: Admission to Honors Studies or by invitation.

POLS 3185 Internship  
as scheduled

This course is designed for students seeking credit through an internship placement. The internship must be directly related to government; the student must be under direct academic supervision and must complete written assignments to be evaluated by the supervising teacher. The course may be repeated for credit with a maximum of four hours counted as an elective toward fulfillment of the requirements for a major in political science. (Must receive approval of political science department chair.) Prerequisites: POLS 2313 and POLS 2314.

POLS 3300 Independent Studies  
in Political Science [0-0-3]

fall, spring, summer

A professor will work with students on an individual basis to develop an independent study or research program on a critical issue on Political Science. Prerequisites: POLS 2313 and 2314.

POLS 3301 Movies and Politics [3-0]  
as scheduled

This course analyzes the way movies have examined the political and social impacts of various issues. The course includes such topics as the relationship between politics, corruption and power; the bases of discrimination; the idea of community; and the tension between institutional authority and individual autonomy. Prerequisite: POLS 2313 and 2314.

POLS 3302 Media and Politics [3-0]  
fall, spring, summer

This course examines the way mass media have altered the dynamics of politics in both democratic and non-democratic societies. An introduction of various theories related to the media and politics will be followed by several case studies of the United States and other countries; e.g., France, China Egypt. Prerequisites: POLS 2313 and 2314.

POLS 3313 Urban Politics [3-0]  
fall, spring, summer

This course examines the politics of U.S. cities, focusing on the urban political process and institutions that will be considered in the light of changing social and economic conditions. Specifically, the course will examine the connections between increasing racial segregation, urban deindustrialization and urban inequality, along with the federal and state governments' role in precipitating and perpetuating urban decline. Prerequisites: POLS 2313 and 2314.

POLS 3314 American State and  
Local Government [3-0]

as scheduled

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations. Prerequisites: POLS 2313 and POLS 2314.

POLS 3316 American Public Policy [3-0]  
as scheduled

An analysis of rationales underlying selected governmental programs and assessments of the effectiveness of these programs. Prerequisites: POLS 2313 and POLS 2314.

POLS 3317 Problems in American Public Policy [3-0]  
fall, spring, summer

This course will analyze the salient domestic policy issues facing the United States today. Students will be introduced to the source of policy selected problems such as Education, Health Care, the Environment, and Entitlement Programs. They then will examine prominent theories and policy initiatives being developed and implemented to address these policy problems, and will evaluate selected issues in U.S public policy. Prerequisites: POLS 2313 and 2314, POLS 3316 recommended.

POLS 3318 Special Topics [3-0]  
as scheduled

Significant issues and problems in politics and political

systems. Course may be repeated for credit provided different topics are the focus of each class. (Does not count toward fulfillment of any of the six political science fields.) Prerequisites: POLS 2313 and POLS 2314.

POLS 3323 Introduction to Public Administration [3-0]

as scheduled

A survey of public administration in the United States, highlighting a wide variety of topics in the discipline, but with emphasis upon the general machinery of the national bureaucracy and on the powers, problems and control of its agencies. Prerequisites: POLS 2313 and POLS 2314.

POLS 3324 Government Organizations and Administration Theory [3-0]

as scheduled

An analysis of the various theories of public administration and government organization. The contribution of such theorists as Weber, Taylor, Mayo, McGregor, Maslow, Simon and others will be studied. The development of public administration will be surveyed. Prerequisites: POLS 2313 and POLS 2314.

POLS 3331 Methods of Political Science Research [3-0]

as scheduled

This course examines models of inquiry, research methods, and introduction to the use of computers in political research. Emphasis will be given to the background and development of research designs appropriate to both qualitative and quantitative methods of political science research. Prerequisites: POLS 2313, 2314, and 2331 (or approved statistics course).

POLS 3332 Advanced Quantitative Research Methods [3-0]

fall, spring, summer

Students will study the theory and application of quantitative methods to data in Political Science, enabling them to investigate Political Science topics using original/primary sources data and methods such as regression analysis and limited dependent variable analysis. This course is especially recommended for students who intend to pursue graduate studies in the Social Sciences. Prerequisites: POLS 2313 and 2314, POLS 2331 (or approved statistics course), and POLS 3331 (or approved Research Methods course).

POLS 3333 Classical Political Theory [3-0]

as scheduled

A study of classical political philosophy from Socrates to Machiavelli. Prerequisites: POLS 2313 and POLS 2314.

POLS 3334 Modern Political Theory [3-0]

as scheduled

A study of political philosophy from Machiavelli to the end of the 19th century. Prerequisites: POLS 2313 and POLS 2314.

POLS 3343 International Politics [3-0]

as scheduled

A study of the political principles, problems and factors involved in the foreign policies and relations of the nation-state with particular emphasis on the sources and uses of national power and the difficulties in limiting the use of such power. Prerequisites: POLS 2313 and POLS 2314.

POLS 3344 Contemporary Political Theory [3-0]

as scheduled

A study of 20th century political philosophy. Prerequisites: POLS 2313 and POLS 2314.

POLS 3363 Latinos and Latinas in U.S. Politics [3-0]

as scheduled

The political issues facing various Latino groups in the United States will be examined by focusing on the histories, socialization, culture, participation and policy issues relevant to the selected groups. Prerequisites: POLS 2313 and POLS 2314.

POLS 3365 Politics of Race, Immigration and Citizenship [3-0]

as scheduled

The relationship between immigration, citizenship policy and the social constructions of race and ethnicity are examined. The course analyzes the historical experiences of different racial/ethnic groups in the immigrant process and the evolution of the concept of U.S. citizenship viewed through the lens of race relations. Prerequisites: POLS 2313 and POLS 2314.

POLS 3367 Race and Ethnicity in U.S. Politics [3-0]

as scheduled

This course analyzes the political experiences of racial and ethnic groups in U.S. politics. Both traditional (e.g., voting) and non-traditional (e.g., protest movements) strategies of political empowerment are explored. Prerequisites: POLS 2313 and POLS 2314.

POLS 3375 Politics of Germany [3-0]

as scheduled

A study of the politics and government of Germany in the context of German history and culture. Examines the leading role of Germany within the European Union. Prerequisites: POLS 2313 and POLS 2314.

POLS 3376 Politics of Global Security [3-0]

as scheduled

This course is designed to: 1) Explore the evolution of security concepts worldwide; 2) Address a wide range of major international issues with global implications such as conventional security, terrorism, gender and age, environmental problems, migrations, international law, intra-state conflicts, mass destruction weapons; and 3) Identify and debate possible measures to address and present these

problems. Prerequisites: POLS 2313 and POLS 2314

POLS 3380 Gender in U.S. Politics [3-0]  
as scheduled

This course examines multidimensional aspects of gender and political life in the U.S. It analyzes the relationship between gender, culture, political behavior and public policy, and explores the historical evolution of the role of women in the United States political system. Prerequisites: POLS 2313 and POLS 2314.

POLS 3381 Women in World Politics [3-0]  
as scheduled

This course analyzes women's social and political movements in a global context. Prerequisites: POLS 2313 and POLS 2314

POLS 3382 Politics of Women of Color [3-0]  
as scheduled

This course will examine the politics of women of "color" in the United States. The two primary foci will be: 1. Theoretical issues related to feminism and how they relate to women of "color"; 2. Political Policy, organizations, and institutions that impact the lives of women of "color." Material is presented in a comparative focus to include examining similarities and differences between and among women, and variations among them. Prerequisites: POLS 2313 and POLS 2314

POLS 3390 Democracy and Democratization [3-0]  
as scheduled

This course examines how 1) democracy is conceptualized and 2) democratization processes develop from a historical and comparative perspective. Key questions center on the implications, challenges and future prospects for democracy and democratization around the world. Prerequisites: POLS 2313, POLS 2314, and Statistics (ANTH 2430, PSY 2401, SOC 2301, or MATH 2330)

POLS 3396 Community Leadership [3-0]  
fall, spring

This course will help students apply leadership theory to community service. A number of guest lectures, solicited and scheduled by students, will introduce students to public service opportunities in their own backyard. The guest lectures will be presented by local community and university leaders. Students will be required to interview these leaders and write and present a biographical introduction for them. Students will also be required to participate in a community service organization and write a paper on the experience. Students in this class will also partner with the local leadership programs. Prerequisites: POLS 2313 and POLS 2314.

POLS 3397 Archer Center Policy [0-0-3]  
Making Process

fall, spring  
This course provides an overview of how policy is made at the federal level. Through various readings you will become familiar with the process as it is designed. Through in-class

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discussions, on-the-job experiences and meeting Washington powerbrokers who help craft policy, you will see how the process actually works. The course will be interactive, with a strong focus on in-class discussion and guest speakers who will challenge your views and provide an insiders' perspective on Washington. One policy area will be focused on per semester to provide a thought provoking issue to study, discuss, and analyze. Prerequisites: POLS 2313 and 2314, and acceptance into the Archer Center program.

POLS 3398 Archer Center Beyond [0-0-3]  
Congress and the White House

fall, spring  
This course will enable students to understand power in our nation's capital, especially what lies beyond Congress and the White House. Students will study in Washington, D.C. provides unique opportunities, using locations such as the National Mall, Arlington Cemetery, and the National Archives as a textbook. Each week, students will visit different places to examine complex issues such as the relationship between democracy and war, or the future of the Internet. Class will be conducted as a graduate seminar, emphasizing discussion and other forms of participation. Work will relate to students' internships and to headline-making events. Prerequisites: POLS 2313 and 2314, and acceptance into the Archer Center program.

POLS 3399 Archer Center Internship [0-0-3]  
fall, spring

Students secure full time internships in Washington, D.C. with organizations ranging from the Supreme Court to the United Nations Information Center. Participation in the internship for at least 32 hours a week is required throughout the duration of the semester in Washington. Students will be evaluated regularly via supervisor surveys, and will be required to submit a final report on their experience. Additionally, students will be encouraged to bring their internship experiences into their other classes for discussion and contribution. Prerequisites: POLS 2313 and 2314, and acceptance into the Archer Center program.

POLS 3488 Politics of Opera [3-0]  
as scheduled

This course is a study of selected operas from the baroque, classical, and romantic eras. These works are analyzed in terms of the absolutist, enlightened, and nationalistic theories and practices of their respective eras. Prerequisites: POLS 2313 and POLS 2314

POLS 4300 Legal Research and Writing I [3-0]  
as scheduled

An introduction to the techniques and skills involved in conducting legal research. Special attention is given to translating research into different forms of legal writing (i.e., memorandums and briefs).

POLS 4301 Legal Research and Writing II [3-0]  
as scheduled

Continued development of legal research and writing skills, with special attention paid to reading comprehension and logical reasoning relating to legal issues. Prerequisites: POLS

2313 and POLS 2314.

POLS 4309 Public Fiscal Administration [3-0]  
as scheduled  
Scheduled survey and analysis of governmental budgeting and public finance, emphasizing theories, techniques, procedures and implementation. Prerequisites: POLS 2313 and POLS 2314

POLS 4313 Politics of Western Europe [3-0]  
as scheduled  
A study of the major democracies of Europe ó Great Britain, France, Germany, Italy, low countries, Scandinavian countries, Switzerland and Austria. A comparative study of peoples and their institutions. Prerequisites: POLS 2313 and POLS 2314.

POLS 4314 Politics of the Middle East [3-0]  
as scheduled  
A comparative examination of the social, economic and theological components of Middle Eastern politics. Prerequisites: POLS 2313 and POLS 2314.

POLS 4320 American Constitutional Law:  
Federalism [3-0]  
as scheduled  
A study of national-state relations by use of court cases, with special emphasis on the impacts of the commerce and taxation clauses; a study of Congressional-presidential relationships by use of court cases. Prerequisites: POLS 2313 and POLS 2314.

POLS 4321 American Constitutional Law:  
Liberties [3-0]  
as scheduled  
A study of the limitations of governmental powers in the United States by use of court cases, with primary emphasis on civil and political rights. Prerequisites: POLS 2313 and POLS 2314.

POLS 4332 American Political Theory [3-0]  
as scheduled  
An analysis of American political theory and values from the Colonial period to the present. The work of Jefferson, Jackson, Calhoun, Bellamy, Hoover and Galbraith are included. Prerequisites: POLS 2313 and POLS 2314.

POLS 4353 International Organization [3-0]  
as scheduled  
An analysis of the judicial-political foundations. Actual machinery and activities of the principal international organizations, particularly the United Nations and related bodies. An appreciation of their achievements toward international peace. Prerequisites: POLS 2313 and POLS 2314.

POLS 4355 Intelligence Agencies in US Politics [3-0]  
as scheduled  
This course examines the origins, structures, purposes, functions, and activities of intelligence agencies in the U.S. political system, and how intelligence agencies are used as instruments of both international and domestic government policy. Prerequisites: POLS 2313 and POLS 2314

POLS 4360 American Executive Process [3-0]  
as scheduled  
Advanced study of the development of the power and influence of the president and other American executives; procedures and politics of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system. Prerequisites: POLS 2313 and POLS 2314.

POLS 4363 American Legislative Process [3-0]  
as scheduled  
Advanced study of the legislative process; structure, powers, organization, political control and procedures of Congress, state legislatures and local legislative bodies in the rest of the political system. Prerequisites: POLS 2313 and POLS 2314.

POLS 4365 American Administration Process [3-0]  
as scheduled  
An advance study is made of law and procedures of national, state and local administrative agencies and their behavior, to include problems in administrative management, theory of complex organizations, and policy outcomes of the administrative process. Prerequisites: POLS 2313 and POLS 2314

POLS 4367 American Judicial Process [3-0]  
as scheduled  
Advanced study of the structure, functions and procedures of the national, state and local judicial systems; the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision-making on public policy; jurisprudence. Prerequisites: POLS 2313 and POLS 2314.

POLS 4370 Political Socialization and  
Civic Engagement [3-0]  
as scheduled  
This course analyzes the relationships between political culture, social characteristics and demography, and their impact on political values, attitudes and participation. Prerequisites: POLS 2313 and POLS 2314.

POLS 4371 Interest Groups and  
Political Movements  
in U.S. Politics [3-0]  
as scheduled  
This course analyzes the relationships between the role of collective action in the U.S. political system and its impact on the democratic process. Particular attention is paid to the role of organized interest groups and their influence on the political process. Prerequisites: POLS 2313 and POLS 2314.

POLS 4372 Voting Behavior, Campaigns

- and Elections in U.S. Politics [3-0]  
as scheduled  
This course examines voting behavior and political campaigns in U.S. politics, including analysis of the effects of political parties, issues, interest groups, campaign finances, media and campaign strategies on election and policy outcomes. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4373 Political Parties in the United States [3-0]  
as scheduled  
The history, organization, function and leadership of political parties and the role they play in the operation of national, state and local governments are examined. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4374 Public Opinion and Political Behavior [3-0]  
as scheduled  
An analysis of public opinion and political behavior, with emphasis on the nature, origins, distribution and measurement of public opinion, as well as its impact on citizen participation in the U.S. political system. Prerequisites: POLS 2313 and 2314.
- POLS 4375 American Foreign Policy [3-0]  
as scheduled  
Study of the politics, formulation, conduct and consequences of U.S. foreign policy. The roles of the president, Congress, interest groups, political parties, the military and intelligence agencies and public opinion are examined. Specific cases of major foreign policy decisions to be examined. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4381 Contemporary Chinese Politics [3-0]  
as scheduled  
By focusing on Chinese politics in the reform era, this course examines a wide range of critical issues in contemporary Chinese politics. Topics will include various political, social and economic problems resulting from the country's unparalleled economic and political reform. Prerequisites: POLS 2313 and POLS 2314
- POLS 4382 Asian Politics [3-0]  
as scheduled  
This course examines the politics of China, Japan, and the Koreas, including topics such as the respective state institutions, political culture, state-society relations, foreign policy, regional cooperation, interactions, as well as conflicts. Through comparison and contrast, the course will further student's understating of this fast developing region of the world, and expand their knowledge of world politics. Prerequisites: POLS 2313 and POLS 2314
- POLS 4383 Politics of Central America and the Caribbean [3-0]  
as scheduled  
A survey of governmental structures and politics in Central America and the Caribbean. Examines competing ideologies, group developments, party interests, influence of revolution, relationships among political, social and economic structures
- and Latin America's role in the world political arena. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4386 South American Politics [3-0]  
as scheduled  
A survey of governmental structures and politics in South America. Examines competing ideologies, group developments, party interests, influence of revolution, relationship between political, social and economic structures and South America's role in the world political arena. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4387 Politics of Mexico [3-0]  
as scheduled  
A study of the politics and government of Mexico focusing on the political system in the context of history and culture. Study of Mexico's relations with the United States and other nations. Prerequisites: POLS 2313 and POLS 2314.
- POLS 4396 Survey of Texas and U.S. Leadership Models and Practices [3-0]  
fall, spring  
This course examines leadership on a macro-level. Starting at the state level and moving on to a national scope, this class will explore case studies in both government and organizational leadership. Students will explore leadership styles, both successful and not, of a number of famous (or infamous) state and national leaders. In addition, students will examine a number of complex social issues that affect us on a state and/or national level. They will apply leadership theory, community building strategies and interdisciplinary approaches to propose a variety of solutions. Prerequisites: POLS 2313 and 2314.
- POLS 4397 Survey of World Leadership Models and Practices [3-0]  
fall, spring  
This course examines leadership on a global level. Students will explore world leadership through case studies; examine the differences between leadership styles and models in Latin America, Europe, the Middle East, Asia and/or Africa. In addition, students will examine a number of complex social issues that affect society on a global level. They will apply leadership theory, community building strategies and interdisciplinary approaches to propose a variety of solutions. Prerequisites: POLS 2313 and POLS 2314.

## Portuguese

- PORT 3301 Portuguese for Spanish Speakers [3-0]  
fall, spring  
Intensive and accelerated study of the Portuguese language. Emphasis on similarities and differences between Spanish and Portuguese. Introduction to Portuguese and Brazilian literatures and cultures. Prerequisite: SPAN 2308

# Physical Science

PSCI 1421 Physical Science I [0-3]  
(Texas Common Course Number is PHYS 1415)  
fall, spring, summer

A survey course designed to provide an introduction to the concepts and principles of physical science for non-science and elementary teaching majors. The topics covered include mechanics, thermodynamics, electricity, magnetism and astronomy. \$20 laboratory fee.

PSCI 1422 Physical Science II [0-3]  
(Texas Common Course Number is PHYS 1417)  
fall, spring, summer

A continuation of PSCI 1421. A survey course designed to provide an introduction to the concepts and principles of physical science for non-science and elementary teaching majors. The topics covered include waves, sound, light, atomic structure, chemistry, Earth science, and weather. Prerequisite: PSCI 1421. \$4 laboratory fee.

PSCI 3310 Planet Earth and its Place  
In the Solar System [2-3]  
as scheduled

This is a one semester course devoted to the formation and interaction of the solar system and the Earth. The evolution of the Earth's atmosphere and surface will be discussed as well as the impact that these have had on the origin of life. Prerequisites: PSCI 1421, 1422 and GEOG 2313.

PSCI 3408 Survey of Physical Science [3-3]  
as scheduled

Introduction to topics of the physical sciences drawn from physics, chemistry and geology. Basic concepts from mechanics, electricity, magnetism, light, atomic structure, the elements and compounds, and simple reactions will be covered. The study of rocks, minerals and geological processes will be included. \$4 laboratory fee.

PSCI 4311 Topics in Physical Science [3-0]  
as scheduled

A course that incorporates many different topics in physical science. Guest lecturers, student participation and basic concept presentation will be utilized for each topic. The course may be taken more than one semester for different topics. Prerequisites: MATH 1334 and eight hours of a physical science, or consent of instructor.

# Psychology

PSY 1310 Introduction to Psychology [3-0]  
fall, spring

An introduction to the discipline of psychology as a natural science and as an applied social science. This course includes topics such as the biological bases of behavior, sensation and

perception, learning and memory, emotions, personality, abnormal psychology, therapy, developmental and social psychology. Previous course numbers: PSY 1310 replaces the previous PSY 1313/1323 sequence. PSY 1310 may be repeated to replace a grade for PSY 1313.

PSY 2401 Basic Statistics for Psychologists [3-3]  
(Texas Common Course Number is PSYC 2317.)  
fall, spring

A practical study of the procedures used in handling psychological data including descriptive statistics, central tendency, variation, correlation and inference. Equivalent Course: May be counted as ANTH 2401; a student may receive credit in only one course. Prerequisites: MATH 1340 or higher (except EMAT 2306) and three hours of the following: PSY 1310, ANTH 1323, ANTH 1324 or ANTH 1342.

PSY 3324 Social Psychology [3-0]  
as scheduled

An overview of how groups and society influence behavior and thinking. The main topics include conformity, obedience, prosocial behavior (cooperation and helping others), the behavior of groups, attitudes and prejudice, as well as research on interpersonal attraction, including physical attractiveness and romantic love. The course also examines how everyday people are implicit psychologists, trying to explain and understand the behavior of others as well as their own. Prerequisite: Three hours of social science credit.

PSY 3325 Research Methods in Psychology [3-0]  
fall, spring

This course provides a lecture-laboratory approach to learning the scientific methodology of empirical psychological research. Basic principles and methods of research design, hypothesis testing, data collection and analysis and result interpretation are covered in this course. Prerequisites: PSY 1310 and PSY 2401.

PSY 3332 Developmental Psychology:  
Infancy Through Adolescence [3-0]  
fall, spring

An overview of human development from conception through adolescence. Topics include biological foundations, physical growth, language and cognition, social and personality development and important environmental/contextual factors which affect development. Traditional and recent theoretical perspectives are reviewed.

PSY 3333 Psychology of Adulthood:  
Maturity and Old Age [3-0]  
as scheduled

A study of such aspects of adulthood as job selection, marriage, child rearing and old age. Prerequisite: Six hours of psychology.

PSY 3337 Developmental Psychology:  
Lifespan [3-0]  
fall, spring

The field of developmental psychology is an overview of the physical, cognitive, social, emotional and personality 335

domains of the changes that occur over time. The course focuses on normal development from conception through death. Traditional and theoretical perspectives are reviewed. Prerequisites: PSY 1310 and junior standing.

PSY 3338 Psychology of Gender [3-0]  
fall, spring, summer

This course reviews psychological perspectives on sex differences and in development of gender identity. Theoretical explanations of differences in female and male attitudes and behaviors will be addressed. Sex and gender will be discussed as they influenced social relations, including achievement, communication, friendship patterns, romantic relations and work roles, as well as mental and physical health. Cross cultural perspectives will be included. May be counted as PSY 3338 or WMST 3338; a student may receive credit in only one course. Prerequisite: Junior Standing.

PSY 3340 Stress Management [3-0]  
as scheduled

This course introduces the student to a wide variety of stress reduction techniques and their implications for health. Practical experiences as well as research in such areas as biofeedback, relaxation training and meditation are provided. Prerequisite: PSY 1310.

PSY 3343 Tests and Measurements  
in Psychology [3-0]  
fall, spring

Concentrates on the theoretical aspects of test construction and on extensive survey of the major types of standardized tests used in industry, schools and mental health settings. Prerequisites: PSY 1310 and PSY 2401.

PSY 3345 Psychology of Learning [3-0]  
as scheduled

An introduction to the methods, results and interpretations of experimental studies of learning, including both animal conditioning and human memory. Emphasis will be placed on classical and instrumental conditioning procedures.

PSY 3353 Physiological Psychology [3-0]  
fall, spring

An analysis of the basic physiological mechanisms underlying behavior with emphasis on the role of the central nervous system in sensation, emotion, motivation, learning and memory. A knowledge of biology is helpful but not necessary. Prerequisite: PSY 1310.

PSY 3373 Sensation and Perception [3-0]  
as scheduled

A study of the basic mechanisms underlying sensation and perception. Experimental methods, research findings and theory are emphasized. Prerequisite: PSY 1310.

PSY 3383 Animal Behavior [3-0]  
as scheduled

An introduction to the methods, results and interpretation of studies of animal behavior from the perspectives of comparative psychology and ethology. An emphasis will be placed on social

and communicative behavior. Prerequisite: PSY 1310.

PSY 3405 Behavior Modification [3-3]  
as scheduled

An overview of principles of social learning, operant conditioning and the application of these principles to personal development, relationships and problem behavior. Three hours lecture and a three-hour lab. Prerequisite: PSY 1310.

PSY 4302 Primate Behavior [3-0]  
as scheduled

A review of the behavior of selected representatives of the order primates, based upon research conducted in both laboratory and field. In addition, students will collect data on a representative primate group at the Gladys Porter Zoo. Equivalent Course: May be counted as ANTH 4302; a student may receive credit in only one course. Previous course number: PSY 3384; a student may receive credit in only one course. Prerequisites: PSY 1310 and PSY 3383, or ANTH 1324, or consent of instructor.

PSY 4312 Female and Male [3-0]  
as scheduled

An examination of the physiological and psychological influences of sex role development, including such topics as human liberation, sexual behavior, child rearing practices and career opportunities. Prerequisite: Nine hours of psychology or consent of instructor.

PSY 4313 Abnormal Psychology [3-0]  
fall, spring

A comprehensive analysis of various emotional disorders, neuroses and psychoses, their symptoms, etiologies and treatment and approaches. Prerequisite: PSY 1310.

PSY 4318 Theories of Learning [3-0]  
as scheduled

A historical review of major theoretical positions in the field of animal and human learning. Prerequisite: PSY 1310 or consent of instructor.

PSY 4319 Cognitive Psychology [3-0]  
as scheduled

The study of intellectual activities. Topics include attention, perception, pattern recognition, memory, concept formation, language processing, reasoning, judgment, decision making, problem solving, and creativity. Prerequisite: PSY 1310.

PSY 4320 Memory [3-0]  
as scheduled

The experimental study of the acquisition, storage, retrieval and forgetting of verbal information. Emphasis is on basic research and theory about adult processes, and little consideration is given to either applications or development of the processes in children. Prerequisite: PSY 1310.

PSY 4326 Cross-Cultural Psychology [3-0]  
as scheduled

The course examines how culture shapes our cognition



and behavior. In addition to exploring intercultural contact and cross-cultural research methods, the following areas in psychology are analyzed from a cross-national perspective: perception, cognition, human development, attitudes and interpersonal relations. Prerequisite: PSY 1310.

PSY 4328 Psychological Issues in the Mexican-American Community [3-0]

as scheduled

Mexican-American personality development and assessment, ethnic identity and acculturation are examined in the course, as are Chicano perceptions of abnormal conduct and the use of alternative therapists. Selected community issues, such as immigration and prosocial behavior, are also explored from a psychological perspective. Prerequisite: PSY 1310.

PSY 4333 Theories of Personality [3-0]

as scheduled

Emphasis is placed on the major theories of personality that attempt to explain the psychological nature and behavior of people. Some consideration is given to the process involved in developing a theory of personality. Prerequisite: PSY 1310.

PSY 4342 Psychology and Law [3-0]

as scheduled

This course is designed to give students an appreciation of behavioral phenomena as they apply to our legal system. A general survey of related topics such as the trial process, the psychology of evidence and the psychology of juries will be covered.

PSY 4343 Human Factors [3-0]

as scheduled

Human factors is concerned with optimal interaction between humans and their working environments, including machines, instruments, computers, and physical environments. The course draws from several areas of psychology, including sensation, perception, memory, cognition, physiology, learning, and motivation. The goal is to optimize the design of operation systems by considering human capabilities and limitations. Prerequisites: PSY 1310 and a course in perception or memory.

PSY 4355 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. Equivalent Course: ANTH 4355; a student may receive credit for only one course. Prerequisite: PSY 1323 or ANTH 1323 or ANTH 1353 or instructor's consent.

PSY 4356 Mind-Body Interactions [3-0]

as scheduled

The course is designed to demonstrate the inseparability of mind and body. Although our Western approach to medicine still focuses on illness and treatment as biologically-based, there is increasing evidence that psychological and social factors play a part in the healing process. The course is

divided into three areas of content: examination of how alterations of the body can affect the mind, examination of how the mind can affect the body, especially as a result of stress and, lastly, an evaluation of complementary/alternative medicine.

PSY 4363 Systems and Theories in Psychology [3-0]

as scheduled

A history of the development of psychology and a study of theories in contemporary psychology. Prerequisite: Twelve hours of psychology.

PSY 4380 Directed Research [3-0]

as scheduled

Students will have the opportunity to conduct faculty-supervised research in an area of mutual interest resulting in oral and written presentations of their work to other students and faculty. The course will provide an opportunity to obtain hands-on research experience for undergraduate students who intend to pursue graduate degrees. May be repeated for up to six hours credit. Prerequisites: PSY 2401, PSY 3325 and consent of instructor.

PSY 4383 Special Problems [3-0]

as scheduled

Selected topics assigned according to the interest of the class and/or student. Sequential registration for up to nine hours is permitted as topics vary. Prerequisites: Nine hours of psychology and consent of instructor.

## Public Administration

PUBA 3323 Introduction to Public Administration [3-0]

fall

A survey of Public administration in the United States, highlighting a wide variety of topics in the discipline, but with emphasis on the general machinery of the national bureaucracy and on the powers, problems and control of its agencies. Prerequisites: POLS 2313 and POLS 2314

PUBA 3324 Government Organization and Administrative Theory [3-0]

fall

An analysis of the various theories of public administration and government organization. The contribution of such theorists as Weber, Taylor, Mayo, McGregor, Maslow, Simon and others will be studied. The development of public administration will be surveyed. Prerequisites: POLS 2313 and POLS 2314

PUBA 3325 Public Personnel Administration [3-0]

fall

Fundamental concepts of public personnel management with analysis and evaluation of employee-employer relations at the national, state and local levels. Topics such as environmental influences on the personnel function,

career systems, human resources planning and management, performance evaluation, ethics in public service and collective bargaining.

Prerequisites: POLS 2313 and POLS 2314

PUBA 4309 Public Fiscal Administration [3-0]  
fall

Survey and analysis of governmental budgeting and public finance, emphasizing theories, procedures and implementation. Prerequisites: POLS 2313 and POLS 2314

PUBA 4310 Comparative Public Administration [3-0]  
fall

This course is a comparative analysis of the administrative systems of different governments. Particular attention is focused on the relationship of administrative practices and decision-making processes in the various states.

Prerequisites: POLS 2313 and POLS 2314

PUBA 4362 Independent Study [3-0]  
fall

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 timelines which must be approved by the supervising faculty. Prerequisites: POLS 2313 and POLS 2314

PUBA 4363 Special Topics [3-0]  
fall

Intensive study of a specialized area of public administration or a selected topic in contemporary public management. Prerequisite: POLS 2313 and POLS 2314

PUBA 4378 Management of Non-Profit Organizations [3-0]  
fall

This course is a survey of the field of management practices in nonprofit organizations (sometimes called Nongovernmental organizations (NGOs or the third sector)). This class will introduce students to the service, volunteerism, philanthropy and the basic concepts and foundational theories relating to the practice of the administrative sciences and management. The course content addresses two major dimensions: professionalism and effective management. This course covers (1) the foundations of administration and management; (2) nonprofit organizations, theories, concepts, and people; (3) a macro view of third sector and (4) ethics of service organizations. This course also addresses two core competencies, critical thinking and understanding the concepts of citizen participation. Prerequisites: POLS 2313 and POLS 2314.

## Quantitative Methods

QUMT 2341 Elementary Business and Economic Statistics [3-0]

fall, spring, summer

An analysis of descriptive statistics and statistical inference. Topics include collection, organization and presentation of numerical data; central tendency, variation, skewness, probability, probability distribution, sampling distributions, estimation theory and hypothesis testing. Computer laboratory assignments covering the above topics will be assigned.

Prerequisites: MATH 1341 or 1340; CIS 1301 or CIS 1101.

QUMT 2342 Computational Methods in Business [3-0]

fall, spring, summer

In this course, students gain higher level quantitative skills using computational techniques and models applicable to business decision making that are needed to succeed in courses within the Bachelor of Business Administration degree programs. Prerequisite: MATH 1340, MATH 1341 or equivalent with C or better.

QUMT 3342 Intermediate Business and Economic Statistics [3-0]

fall, spring, summer

A continuation of elementary statistics, including regression and correlation, index numbers, time series, nonparametric statistics and other decision-making tools. Computer laboratory assignments covering the above topics will be assigned.

Prerequisites: QUMT 2341 and MATH 1322 or QUMT 2340.

QUMT 3343 Statistical Methods for Business [3-0]  
fall, spring, summer

Students will study descriptive and inferential statistical techniques used to solve business-related problems. Topics include descriptive techniques, probability, confidence intervals, tests of hypotheses, analysis of variance, chi-square tests, correlation and regression. Prerequisites: MATH 1342 or QUMT 2340.

QUMT 4343 Quantitative Methods for Decision-Making in Business [3-0]

fall, spring, summer

This course provides students with the methodologies to approach problems in a rational and logical manner by developing their analytical maturity, their ability to identify alternative actions and their ability to select a solution from viable alternatives. Different problem-solving techniques will be implemented along with software applicable to decision making in business. Prerequisite: QUMT 3343.

## Reading

READ 3310 Narrative and Expository  
Analysis-Elementary/Secondary [3-0]  
as scheduled

Examines the processes utilized to provide clues to understanding text: identification of relevant information of text and how events in the text are related; utilizing information of text to determine that which is not stated; evaluating and judging text; monitoring what is read for the purpose of clarifying text.

READ 3323 Reading Acquisition [3-0]  
as scheduled

Psychological, sociological, cultural, physical and linguistic factors related to reading acquisition; analysis of scope and sequence of word recognition processes: sight word vocabulary, phonics, structural, morphemic and contextual analysis; analysis of organizational and management parameters of learner-centered reading instruction at the primary levels; diagnostic and prescriptive processes as they pertain to readiness, structural and phonetic analysis, vocabulary skills and classification skills. (Field-Based Approved Course.)

READ 3325 Cognitive Development and  
Reading Comprehension [3-0]  
as scheduled

Examination of principles of comprehension; factors that affect comprehension of text; cognition and reading comprehension; components of the learner-centered instructional program of reading comprehension and the correlation of reading processes to the writing processes; analysis of comprehension processes as they apply to various text structures; extending and enriching reading comprehension through literature; diagnostic and prescriptive processes as they pertain to literal, interpretive and evaluative comprehension processes. (Field-Based Approved Course.)

READ 3326 Reading Across the Curriculum  
Content Areas [3-0]  
as scheduled

Analysis of research, study and library skills; examination of reading as applied to the various content areas with focus on effective reading processes across text types and subject-specific vocabulary. Prerequisites: READ 3323 and READ 3325.

READ 3327 Assessment/Diagnosis of  
Special Needs Students [3-0]  
as scheduled

Examination of the affective, cognitive, cultural and linguistic correlates of reading disabilities; examination of the characteristics of gifted readers; analysis of learner reading styles across the modalities of auditory, visual, kinesthetic and tactile; analysis of the principles of assessment and relationships to both remediation and enrichment. Prerequisite: READ 3323.

READ 3329 Language Arts Curriculum [3-0]  
as scheduled

Reading as an integral part of the language arts process; study of the relationships between listening, speaking, reading and writing. Prerequisite: READ 3323.

READ 4351 Developmental Reading in  
Secondary Schools [3-0]  
as scheduled

Analysis of the relation of reading ability to academic achievement; reading skills needed in content area reading; reading difficulties encountered by students in secondary schools. Prerequisites: READ 3323 and READ 3325 (except for meeting requirements of secondary professional development certification).

## Rehabilitation Services

REHS 2301 Introduction to Rehabilitation [3-0]  
fall, spring and as scheduled

Introduction to the field of rehabilitation and rehabilitation professions and specialties (e.g., rehabilitation counseling, vocational evaluation, job placement). The course addresses theory and practice of rehabilitation as well as the history, philosophy and legislative basis for the programs and professions. Includes an overview of the needs of individuals with disabilities and the effects disabilities have upon personal, social and vocational adjustment. The independent living rehabilitation movement and the vocational rehabilitation process are discussed, along with the impact individuals with disabilities have upon the nation's economy. Community resources and agencies that provide services to people who have disabilities are explored. May include field trips, guest lectures and community-oriented assignments.

REHS 2321 Introduction to  
Addiction Studies [3-0]  
fall, spring and as scheduled

Provides an introduction to the antecedents and the rehabilitation of the disability of substance abuse in the areas of vocational, social, familial, personal and physical areas. Includes information about multiple disabilities (e.g., physical and emotional disability and substance abuse).

REHS 2331 Psychology of Disability [3-0]  
fall, spring

Provides a survey of psychological aspects of disability with an emphasis on physical disability. Includes an overview of research areas and findings. Describes major disability groups, and their psychological processes that are observed in consumers and their families as they react and adjust to their disabilities. Equivalent Course: PSY 2331; a student may receive credit for only one course.

- REHS 3303 Case Management I [3-3]  
fall, spring  
Introduction to case management skills and techniques including interviewing will be taught. Applied and supervised learning experiences will be emphasized. Prerequisites: REHS 2301, REHS 2331 and formal admission.
- REHS 3311 Disability Policy and Independent Living [3-0]  
fall, spring  
This course provides an in-depth review and analysis of legislation and policies (both federal and state) that impact people with disabilities and the rehabilitation professional. Major legislation that will be covered includes The Americans with Disabilities Act, Rehabilitation Act of 1973, Social Security, The Ticket to Work and Work Incentives Improvement Act of 1999, Individuals with Disabilities Education Act and state workers compensation laws. The independent living and disability rights movements will be studied in context to their influence on changes in disability policy. The consumer focus of empowerment and control over one's life will also be covered.
- REHS 3315 Hearing Disorders and Assistive Technology [3-0]  
fall, spring  
The seminar course includes a basic orientation to sound, anatomy and physiology of the human hearing mechanism, pathology of hearing, impact of age of onset, with an emphasis in pure tone and speech discrimination. Extensive training in types of hearing losses, techniques and technology used in aural rehabilitation and other aspects of vocational rehabilitation for the deaf and hard of hearing are provided.
- REHS 3320 Family and Disability [3-0]  
fall, spring  
Covers relevant issues concerning the family of a person with a disability. Topics such as family dynamics, family support systems and the role of the family in adjustment to disability will be explored. Particular attention will be given to the Mexican-American family. Prerequisites: REHS 2301, REHS 2331 and consent of instructor.
- REHS 3325 Medical Aspects of Rehabilitation I [3-0]  
fall, spring  
This course provides information on human anatomy as it relates to disability. The student will have the opportunity to review and learn to understand general and specialty medical reports and integrate medical information with vocational potential using functional capacity evaluations. Information on comprehensive medical rehabilitation including service delivery and payment systems will be presented. Allied health and related medical professions will be described to provide a comprehensive understanding of their involvement on the treatment team. Alternative medicine and its relationship to rehabilitation will be presented.
- REHS 3330 Medical Aspects of Rehabilitation II [3-0]
- fall, spring  
This course will provide extensive medical information on etiology, prognosis, treatment procedures and vocational implications of various disabilities. The major disabilities to be covered are diabetes, spinal cord injury, traumatic brain injury, visual impairments, hearing impairments, neuromuscular disorders, cardiovascular disorders, cerebral palsy, mental retardation, HIV/AIDS, epilepsy and neurological disorders. An overview of other disabilities will be covered. Prerequisite: REHS 3325 with a grade of C or better.
- REHS 3335 Sign Language III [3-0]  
fall, spring, summer  
This course is a continuation of intermediate sign language (COMD 1320), and emphasizes expansion and refinement of functional grammatical structure while focusing on medically-related vocabulary and situations. The spontaneous use of American Sign Language is stressed through discussion of the deaf community and other activities being held by the deaf community. Prerequisite: COMD 1320.
- REHS 3340 Intermediate Aspects in Addiction Studies [3-0]  
spring, as scheduled  
Examines the addictions process from the molecular to the social level. This course focuses on the familial, social, cultural, ethical, legal, biological, neurological and psychopharmacological aspects of addiction. Principles of drug action, drug classification, variable of drug responses, and psychiatric issues, including dual diagnosis, will be addressed. An overview of harm reduction principles will be presented.
- REHS 4100 Independent Study [1-0]  
as scheduled  
Individualized study and investigation of 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 four times. Prerequisite: Consent of instructor.
- REHS 4301 Vocational Assessment [3-0]  
fall, spring  
This course will focus on the vocational assessment of people within the rehabilitation process. Students will have the opportunity to be oriented to vocational evaluation, psychometrics, behavioral observations, work samples, situational assessments as well as modifications in assessment techniques needed to effectively evaluate people with disabilities. Prerequisites: REHS 2301, REHS 2331 and formal admission.
- REHS 4302 Job Placement [3-0]  
fall, spring  
A study of job placement theories, approaches and techniques will occur. The student will be having the opportunity to be introduced to the vocational implications of disability. Job-seeking skills, labor market surveys, job analysis, résumé writing and transferable skills analysis are some of the skills that are taught. Prerequisites: REHS 4301 with a

grade of C or better and formal admission.

REHS 4303 Case Management II [3-0]  
fall, spring  
Advanced case management skills and techniques such as interviewing, case history development and program planning within the rehabilitation process will be taught. IWRP development and reviews of client case records will occur in an applied, supervised environment. Legal and ethical issues in service delivery will be addressed. Prerequisites: REHS 3303 with a grade of C or better and formal admission.

REHS 4310 Rehabilitation Research [3-0]  
as scheduled  
This course provides an examination of research methods, designs and statistical analysis as it applies to the field of rehabilitation. The application of research information and literature to guide effective practice for the rehabilitation professional will be covered. The course will address research with a conceptual rather than a statistical approach.

REHS 4315 Psychological and Social Aspects of Deafness [3-0]  
fall  
This course provides an applied psychological perspective to the field of deafness. Psychological processes: sensory, perceptual, cognitive and linguistics will be reviewed. Current issues and topics: demographic trends, culture, human rights, literacy, communication methods, bilingual/bicultural, mental health, multiple disabilities, low-functioning deafness, accessibility and impact of technology will be reviewed.

REHS 4330 Clinical Topics in Rehabilitation [3-0]  
fall, spring  
This course will focus on priority clinical issues and provide concentrated study in specific areas in rehabilitative services that appear timely. The focus will be placed on independent projects, presentation of papers and group discussion. A field-based clinical study project will be required. Prerequisites: REHS 2301 and REHS 2331 or consent of instructor.

REHS 4335 Sign Language IV [3-0]  
fall, spring, summer  
Sign Language IV is a continuation of Sign Language III and emphasizes expansion and refinement of functional grammatical structure while focusing on vocational and job placement related vocabulary and situations. The spontaneous use of American Sign Language is stressed through discussion of the deaf community and other activities being held by the deaf community. Prerequisite: REHS/COMD 3335.

REHS 4340 Clinical Issues in Addiction Studies [3-0]  
as scheduled  
The course focuses on treatment, prevention and intervention approaches as these relate to addictions. Therapeutic

rehabilitation approaches (group, individual, family, conjoint) are addressed in relation to the various populations. Evaluation, assessment, consultation and referral are processed in the therapeutic approaches that are covered. Crisis intervention is an essential area when working with the addictive populations and is included in the therapeutic approaches. Prerequisite: REHS 2321 or consent of instructor.

REHS 4345 Culture, Family and Prevention in Addictions [3-0]  
fall, spring  
This course overviews diverse populations in order to present the impact of family, culture and society upon substance use and abuse. Evaluation, treatment, prevention and intervention techniques and practices will be addressed. Legal and ethical aspects related to diverse populations who have addictions will be explored. Prerequisite: REHS 2321 or consent of the instructor.

REHS 4350 Special Topics in Rehabilitation [3-0]  
as scheduled  
Selected topics in rehabilitation. May be repeated for up to six hours credit when topic varies. Prerequisites: REHS 2301 and REHS 2331 or consent of instructor.

REHS 4355 Multicultural Issues in Human Services [3-0]  
as scheduled  
This is a multidisciplinary course with the purpose of providing students with an overview of the complex relationship between culture and values. Students will have the opportunity to explore their personal values, the roles of education and language as transmitters of culture and values and how that interrelationship is reflected in the human services. Students will develop an awareness of and the ability to articulate cross-cultural perspectives on social, psychological, educational, cultural and interpersonal issues. The course includes conceptual models for resolving cross-cultural conflicts.

REHS 4360 Assistive Technology [3-0]  
as scheduled  
Issues related to technology and people with disabilities will be examined. Types of technology, service delivery models, funding, training and technology abandonment will be covered. Examples of technology will be brought into the classroom. Prerequisites: REHS 2301 and REHS 2331 or consent of instructor.

REHS 4602 Clinical Practicum in Rehabilitation  
fall, spring  
Supervised, field-based clinical experience in a public or private setting serving the disabled. The practicum setting must meet specific program requirements and be approved by the University practicum supervisor. Weekly assignments will focus on daily components within the rehabilitation process and will be treated in a weekly group session. Three hundred twenty clock hours, 20 field hours weekly plus two hours of regularly scheduled group supervision per week. Prerequisites: Completion of all REHS concentration courses and program approval.

# ROTC (Military Science)

ROTC 1201 CPR/First Aid  
and Marksmanship [2-1.25]

as scheduled

Course will examine basic first aid procedures to include evaluation of victims/casualties, cardiopulmonary resuscitation, clearing the airway and administering first aid. The course studies healthy lifestyle habits (diet, exercise, stress reduction) promoting health and wellness. Course includes studies in the fundamentals of rifle and pistol marksmanship along with practical experience on an outdoor range. Students have the opportunity to earn both CPR and first aid certification through national organizations. Students are encouraged to participate in the ROTC early morning fitness program and leadership laboratories.

ROTC 1202 Survival and Land  
Navigation Training [2-1.25]

as scheduled

An introduction to basic military science. Studies in basic military skills. Emphasis is placed on methods and techniques of survival and land navigation, but the course is also designed to enhance self-confidence and physical fitness through active participation in adventure training. Includes a leadership laboratory to teach these principles. An optional weekend field training exercise is offered.

ROTC 2201 Applied Leadership and  
Management [2-1.5]

as scheduled

An application of basic leadership and management principles. The course ethics apply based on leadership skills that develop individual abilities and contribute to the building of effective teams. Study the role of the U.S. Army and Army communication skills such as oral presentations, writing concisely, planning of events, coordination of group efforts and fundamentals of ROTC's Leadership Development program. Two hours and a required leadership lab. Optional weekend field training exercises are offered.

ROTC 2202 Intermediate Leadership and  
Management Techniques [2-1.5]

as scheduled

Learn techniques for training others as an aspect of continued leadership development. Supervisory personnel and motivational techniques are studied through placement of students in positions of small unit leaders given assigned tasks. Introduction to basic tactical mission applications and principles. Two hours and a required leadership lab. Optional weekend field training exercises are offered.

ROTC 3201 Basic Army Physical  
Development [3-1.25]

as scheduled

An in-depth study of the Army's physical fitness program. From this curriculum, a student can develop a physical fitness program that best suits one's ability or physical desire. One can learn to perform individual physical assessments. Other topics include nutrition, stress management, mental fitness/performance enhancement and physical training. Includes limited outdoor physical conditioning and a leadership laboratory.

ROTC 3202 Advanced Army Physical  
Development [3-1.25]

as scheduled

A practicum in physical development where a student applies the physical development skills learned in Basic Army Physical Development and applies them to a program that best suits the individual. The student will be tested in accordance to FM 21-20 and The Army Physical Fitness Test to determine his or her ability and AR 600-9 in attainment of a physical goal. Includes extensive outdoor physical conditioning and a leadership laboratory.

ROTC 3401 Advanced Military Leadership [2-3]  
as scheduled

This course introduces the student to the responsibilities, character and uniqueness of the commissioned officer as a professional. Topics include the role of the small unit leader, radio communications, advanced military leadership, tactical operations and oral communications. Weekend field training exercises are mandatory. Prerequisite: Advanced ROTC standing.

ROTC 3402 Small Unit Tactics [2-3]  
as scheduled

Analysis of the leader's role in directing and coordinating the efforts of individuals and platoon-sized units in the execution of offensive and defensive tactical missions, make-up and preparation of the five paragraph field order, land navigation and patrolling. Prerequisite: Advanced ROTC standing.

ROTC 3604 Internship in Military Science  
as scheduled

The purpose of the Advanced Camp is to train leadership and evaluate officer potential. Technical/tactical proficiency and leadership skills will be put to the test in a carefully planned and stressful training sequence. Light infantry tactics are the individual training vehicle. Prerequisite: ROTC 3402.

ROTC 4401 Staff Management and  
Responsibilities [2-3]

as scheduled

An examination of the garrison and administrative responsibilities of the commissioned officer. An in-depth analysis of staff procedures, the military writing program, advanced leadership assessment and the decision-making process. Precommissioning actions will also be conducted. Weekend field training exercises are mandatory. Prerequisites: Advanced standing, ROTC 3401 and ROTC 3402.

ROTC 4403 Advanced Military Science [2-3]  
as scheduled

This course includes the ethical and professional

responsibilities of the commissioned officer and studies the military justice system as well as the Army training system and customs and traditions of the Army from the perspective of a newly commissioned second lieutenant. Weekend field training exercises. Prerequisites: Advanced ROTC standing, ROTC 3401 and ROTC 3402.

## Science - Teacher Certification

SCIE 1201 Undergraduate Research [0-6]  
fall, spring, summer

Active laboratory, statistical, or computational research of a scientific nature under the supervision of a college of science and engineering faculty member. Prerequisites: Approval of the supervising faculty member. \$4 Lab Fee.

SCIE 1301 Undergraduate Research Expanded [0-9]  
fall, spring, summer

Active laboratory, statistical, or computational research of a scientific nature under the supervision of a college of science and engineering faculty member. Prerequisites: Approval of the supervising faculty member. \$4 Lab Fee.

SCIE 4240 Capstone Course [1-3]  
as scheduled

This course will be designed to review TEKS requirements for the grades 4-8 certification in science. Students will have the opportunity to conduct science education research, and learn how to present and evaluate various investigative techniques used in biology, chemistry and the physical sciences. Students will be assigned laboratory topics that they will have to present and teach to other students in the class. The presenter will be expected to evaluate the students participating in his/her lab, and the students will have the opportunity to evaluate the presenter. Prerequisites: Students enrolled in SCIE 4240 are expected to be in their final semester of on-campus instruction, and should either be enrolled in or have completed all requirements for the interdisciplinary science major.

SCIE 4350 Local and Global  
Environmental Science [2-3]

as scheduled

The course is designed to integrate concepts of life sciences and chemistry and apply them to both local and global environmental issues. Important local topics include water quality of the Rio Grande and Arroyo Colorado Rivers, atmospheric transport of pollutants and aerosols, effects of chronic exposure to hydrocarbons, Lower Laguna Madre seagrass decline, brown tides, and local recycling programs. Important global issues include global warming, ozone depletion, deforestation, ocean dumping, fisheries sustainability, atmospheric pollutant loading, acid rain and habitat restoration. Prerequisites: CHEM 1301 and BIOL 2305.

SCIE 4360 Forensics: Applications of the  
Natural Sciences for Teachers [2-3]

as scheduled

This is an integrated course designed to introduce middle school and secondary teachers to the science of forensics used in investigating and solving crimes. Principles of physics will be utilized to show how crime scenes and accidents can be reconstructed. Students will study how chemistry and spectroscopy are used to investigate crimes involving drugs, detection of explosives, fiber analysis, arson investigations and detection of contraband in airports and harbors. Some time will be given to DNA analysis and genetic testing. Prerequisites: BIOL 1401, CHEM 1301 and 1101, PSCI 1421 and 1422.

SCIE 4370 Planet Earth and  
Its Inhabitants [2-3]

as scheduled

This course is designed to cover the history of the earth from the various theories of origin, to the beginning of life, and through various evolutionary processes and extinctions that have resulted in the planet as we know it today. Students will learn about continental drift and understand the role of environmental forces in evolution, and why there are different species in different climates. Students will study about ecosystems and the roles of the various components of an ecosystem. Prerequisites: BIOL 1402 and 2305, PSCI 1421 and 1422.

SCIE 4480 Applications of Chemistry  
and Physics in Society [2-3]

as scheduled

This course will involve a detailed study of industries and technologies that involve principles of physics and chemistry. Examples of topics that will be included in the course are: electronics in society, the physics of medical imaging, radiation in microwaves and other types of conduction used in industry and in everyday life, the role of ultraviolet radiation in health, applications of chemistry in the food industry and a look at the physics and chemistry involved in the petroleum industry. Prerequisites: CHEM 1301 and 1101, PSCI 1421 and 1422.

## Sociology

SOCI 1313 Principles of Sociology [3-0]  
(Texas Common Course Number is SOCI 1301.)

fall, spring, summer

This course will introduce students to the study of society, focusing on the use and critique of the main sociological theories and techniques used to investigate the human condition. We will examine social institutions, processes and practices across a range of social structures, cultures and historical periods.

- SOCI 1323 Current Social Issues [3-0]  
(Texas Common Course Number is SOCI 1306.)  
fall, spring, summer  
This course helps students understand contemporary social issues, evaluate and critique alternative explanations of these issues and analyze and critically assess various proposed solutions to key public policy problems and issues. Students will have the opportunity to develop writing, speaking, listening and critical thinking skills that will enable them to assume an informed role as citizens in a democratic society. Much of the course will come from information in the news media and other appropriate information sources about cultural, political, economic and public policy issues, with special emphasis on issues related to our unique location in South Texas.
- SOCI 1387 Principles of Sociology [3-0]  
(Honors Plan)  
fall, spring, summer  
A sociological analysis of major concepts such as social group, culture, socialization, social interaction and group relations. The course is discussion-centered with emphasis on independent study. Credit Restriction: Credit may be received in only one of SOCI 1313 or SOCI 1387. Prerequisite: Admission to Honors Studies or by invitation.
- SOCI 2301 Statistics for the Behavioral Sciences [3-0]  
fall, spring  
An introduction to the procedures used in handling sociological data including frequency distributions, central tendency, variability, correlation and elementary hypothesis testing.
- SOCI 2331 Education and Society [3-0]  
fall, spring, summer  
A sociological analysis of societal issues related to education, such as problems of minorities in schools; school dropouts; family problems and education; social inequality and educational outcomes; cross-nation comparisons of educational systems; immigration and education; delinquent subcultures and education; bureaucratic constraints on the profession of teaching; and tracking and ability grouping. Special attention will be on teaching critical thinking about these issues, especially in relation to their relevance to the Rio Grande Valley and the U.S. Mexico Borderlands. Prerequisite: none.
- SOCI 3301 Quantitative Social Research [3-0]  
as scheduled  
This course introduces students to the basic survey methods used in social sciences. Emphasis is on the logic of social science and the implications of the major forms of quantitative research methodology. Allows students to recognize and analyze merits of research in the social sciences.
- SOCI 3302 Qualitative Social Research [3-0]  
as scheduled  
Logic and philosophy of qualitative methodology in
- sociology. The process of research design, data collection, analysis and interpretation of results and final write-up is elaborated with specific reference to research conducted in the Rio Grande Valley and elsewhere. Discussion of the politics and ethics of fieldwork, including protection of the rights of human participants in research projects.
- SOCI 3310 Sports and Society [3-0]  
fall, spring  
This course investigates the relationship between sports and society by examining the role and impact of agents of socialization such as the family, the peer group and the mass media on athletes and their personalities. This course also explores the issues of racism, sexism and violence in various sports. The assumption that participation in sports builds character will be examined along with cultural issues such as deviance, retirement and competition.
- SOCI 3324 Sociology of Health [3-0]  
as scheduled  
Analysis of basic problems in the maintenance and preservation of health and delivery of health care services by social class. Focus is on environmental causes of disease; social-psychological response to illness; and family cohesion, strain and resources as affected by illness.
- SOCI 3325 Social Psychology [3-0]  
fall  
This course examines the sociological perspective of symbolic interactionism. Topics include the development of social psychology and symbolic interactionism, participant observation, the differences between animals and humans, symbolic language, the instinct controversy and Goffman.
- SOCI 3333 Urban Sociology [3-0]  
as scheduled  
The culture, history and growth patterns of cities; demographic, ecological patterns and trends. Problems of housing and community organization.
- SOCI 3344 Societies in Global Perspective [3-0]  
as scheduled  
The course examines the cultures of Asia, Africa and Latin America, with one of these regions as the focus of study in any particular semester. The course looks into cultures of various societies in terms of their social institutions such as language, religion, education, family, customs, traditions, etc., in contemporary and historical perspective and how such institutions provide the value system that is subsequently internalized in the socialization process and become part of the personality.
- SOCI 3345 Issues in Societal Change [3-0]  
fall, spring, summer  
The course examines and analyses selected social issues related to changing such as globalization, migration, nationalism, conflict and multi-national military alignment from diverse sociological perspectives. Prerequisites: None.
- SOCI 3363 Sociology of Religion [3-0]



As scheduled

The sociological study of religion has traditionally been an important part of sociology since the beginning of sociology as an academic discipline. This course will focus on the way religion functions in society and its various forms throughout the world

SOCI 3393 Sociology of Aging [3-0]  
as scheduled

Analysis of the basic problems faced by the aged within a social context. Within an institutional framework, focus is on health, income, work, religion, leisure and interpersonal relationships of the aged.

SOCI 4310 Gender in a Global Perspective [3-0]  
as scheduled

An exploration of the sociological meaning of gender and gender roles in contemporary society. The focus is on the status of women vis-à-vis that of men in the institutional structure: family, marketplace, school and political-legal arena. The nature and causes of sex role differentiation, of changing sex roles and the future of sexual equality will be discussed.

SOCI 4313 American Minorities [3-0]  
as scheduled

An analysis of intergroup relations among minority groups and the dominant group with special focus on patterns of conflict, change, adjustment, power and inequality among such groups. Some in-depth description of the problems and characteristics of major American minorities.

SOCI 4314 Sociology of Deviance [3-0]  
as scheduled

The nature and extent of deviancy examined through a review of theory and research on deviant behavior. Selective examination of particular types of individual and subcultural deviance (e.g., homosexuality, physical handicaps, prostitution).

SOCI 4320 The Sociology of the Family [3-0]  
as scheduled

A comparative historical approach will be used to examine sociological issues concerning the family in contemporary America. An in-depth analysis will focus on many of the social problems that affect the most important social institution in society.

SOCI 4323 The Mexican-American People [3-0]  
as scheduled

Presents an examination of the Mexican-American's economic status, cultural values, style of life, educational attainment, family status and political participation as affected by current socio-economic conditions and their historical antecedents. Prerequisites:

SOCI 4324 Contemporary Research  
in Social Psychology  
as scheduled

This course is a review of selected topics from the empirical literature in social psychology such as gender, ethnicity,

attitudes, prejudice and discrimination, persuasion and helping behavior with emphasis on research from professional articles.

SOCI 4325 Cultural Sociology [3-0]  
as scheduled

The rise of cultural sociology has been one of the most important developments in recent American social science. This course will introduce the student to one of the most popular and important new areas within sociology. The major lines of inquiry ó text, code, production, reception and culture in action, which have made cultural sociology flourish in the past 10 years ó will be examined. This will be accomplished by relying on the mass media as a concrete and shared mechanism through which culture is produced, received and put into action. This class will use movies, television, magazines, newspapers and the recording industry extensively as sources for examination and analysis of major and timely cultural themes.

SOCI 4326 Population and Society [3-0]  
as scheduled

This course focuses on the sociology of population. Through lectures, discussions, examination, and a group project, students are expected to gain an understanding of a series of key demographic issues, including Global Population trends in mortality and fertility transition, aging, migration, and the transition of families and households. Students are also expected to develop the theoretical perspectives to explain regional demographic transformation in the U.S. - Mexico Border area. Prior knowledge of demography is not required to take this course.

SOCI 4330 Gender Research in  
Social Psychology [3-0]  
as scheduled

The course examines gender in research taken from articles found within the peer-reviewed professional journals in social psychology.

SOCI 4333 Classical Social Theory [3-0]  
as scheduled

The nature and function of social theory and its development, especially from the Enlightenment to the early 20th century. Emphasis on the cumulative insights and ideas which have contributed to sociology and on the role of social theory in understanding modern society.

SOCI 4334 Contemporary Social Theory [3-0]  
as scheduled

The main trends, basic problems and unresolved issues of modern and post-modern sociological thought. Essential aspects of the logic of scientific inquiry focusing on contemporary theories as model building in sociology.

SOCI 4352 Social Inequality [3-0]  
as scheduled

A discussion of research, concepts and theory related to inequality in social life, its causes and consequences. The social order of relations between the affluent and the poor and how inequality among the social classes is built into

the culture and institutions of society (e.g., government, economics, religion, family).

- SOCI 4360 Sociology of Education [3-0]  
as scheduled  
Social and institutional organization of education and the profession of teaching. Class, ethnic and social factors affecting the educational process and the effect of educational institutions and practices on the community and society.
- SOCI 4373 Latin American Society [3-0]  
as scheduled  
The aim of this course is to present a general perspective of social change in Latin America and how the United States is being affected by this change. A better understanding of the growing complexity of the relationship between the United States and Latin America requires paying careful attention to a number of key issues and problems, such as how this relationship cuts across differing national histories, gender and ethnic issues, industrialization, democratization, the illicit drug trade, economic and political integration and the growing northbound tide of Latin American unskilled migrant workers. The course will contribute to a growing understanding of the paradox of fragmentation and shared cultural identity in the subcontinent as well as the strikingly different views each country has about U.S. policy, society and culture.
- SOCI 4380 Social Protest and Social Movements [3-0]  
as scheduled  
An investigation of the careers of protest and movement organizations. Special attention is directed to the structure of these organizations and the dilemmas and problems they encounter. Case studies are included.
- SOCI 4383 Independent Studies [3-0]  
as scheduled  
Designed to give students experience in research or in-depth theoretical/empirical readings in a substantive area not normally covered within standard courses. Research projects or advanced readings will vary according to student interest and faculty availability. Sequential registration for up to nine hours is permitted as topics vary.
- SOCI 4385 Special Topics in Sociology [3-0]  
as scheduled  
Selected topics in sociology. Course may be repeated once as topics change with a maximum of six credit hours.
- SOCI 4390 Internship [3-0]  
as scheduled  
The course is designed to provide students with supervised sociology-related work experience in a community agency. Students must contact the Department of Sociology and the Office of Career Services (SSB, 2.101) for approval before registering for the course. Prerequisites: Declared sociology major and 15 hours completed in sociology and the consent of the department chair and the director of Career Services.

## Social Work

- SOCW 1313 Introduction to the Social Work Profession [3-0]  
(Texas Common Course Number is SOCW 2361.)  
fall, spring, summer  
Traces the philosophy and historical development of social work, reflecting its social welfare European roots and its historical evolution in America. A general overview of the social work profession, functions and services as they relate to various fields of practice will be studied. Volunteer work in the community will be required.
- SOCW 2314 The Social Welfare Institution [3-0]  
fall, spring  
This course emphasizes the social welfare institution, its laws, societal responses and parallel social work services. Specific welfare legislation and programs that impact the profession of social work will be examined.
- SOCW 2375 Statistical Methods [3-0]  
This course orients the students to basic statistics concepts and procedures that are needed for generalist social work practice. Students have the opportunity to learn techniques for data analysis using chi-square, t-test, Pearson Correlation Coefficient, and ANOVA. Additionally, students use statistical software to compute inferential statistics.  
Prerequisite: Math 1340 or higher math.
- SOCW 3314 Social Welfare Policy and Programs [3-0]  
fall, spring  
Examines economic, political, intellectual, sociocultural, leadership, values and ideologies and other such factors that shape social welfare policy, programs and services. Addresses various frameworks for studying social policy and examines the roles of policy-makers, process of social change and the role of the social worker as a facilitator of change.  
Prerequisites: SOCW 1313 and SOCW 2314.
- SOCW 3321 Human Behavior and the Social Environment I [3-0]  
fall, spring  
This course presents an overview of theories that form social work practice with individuals and families. There is an emphasis on application of theory to practice. Prerequisite: SOCW 1313.
- SOCW 3322 Human Behavior and the Social Environment II [3-0]  
fall, spring  
This course presents an overview of theories that form social work practice with groups and communities. There is an emphasis on application of theory to practice. Prerequisite: SOCW 1313.
- SOCW 3323 Social Work Practice I [3-0]  
fall, spring

Through classroom and skills lab, the student will have the opportunity to examine some of the necessary knowledge, values, and skills upon which problem-solving is based. The student will also have the opportunity to learn the generalist approach to practice. Prerequisites: SOCW 1313, SOCW 2314 and admission to BSW Program.

SOCW 3333 Special Topics in Social Work Issues [3-0]

as scheduled

An analysis of conceptual frameworks, content, laboratory experiences and research opportunities in current social issues with particular relevance to our community, requiring the social worker's intervention, problem-solving knowledge, values and skills, and preparing the social work student and other helping professionals for interdisciplinary collaboration in achieving effective social change objectives. Sequential registration for up to six hours is permitted as topics vary. Topics will vary according to timeliness of issues, student demand and availability of faculty.

SOCW 3334 Social Work Practice with the Aging Family [3-0]

as scheduled

Students will have the opportunity to study interviewing, assessment and intervention, demographics of an aging population in America, roles and functions of families, the quality of life of the elderly, societal and cultural issues for older adults, supportive resources and networks as well as services for the aged and their family members. The generalist approach is applied to work with older clients through case examples and community assignments.

SOCW 3342 Substance Abuse and the Family [3-0]

as scheduled

Provides an introduction to the basic dynamic nature of the substance-abusing family, including structures, relationships and development in the process of its societal evolution. The function of the family as a socialization agent will be studied. Focus will be given to value transmission, learning patterns of interaction, impact on varieties of relationships and coping styles. Prerequisite: Junior standing or consent of the instructor.

SOCW 3351 School Social Work [3-0]

Examines the major social issues confronting education, as well as how school social workers can interface with educators to address the problems of student absenteeism and underachievement, and the violence, racism and discrimination that are perpetuated by and against students. The roles and functions of school social workers are described. Prerequisite: Junior standing or consent of instructor.

SOCW 3360 Child Welfare [3-0]

as scheduled

Examines child welfare history, policies, programs and practices. Best practices in child risk assessment, foster care and adoption and prevention of child abuse and neglect are

highlighted. Prerequisites: SOCW 1313 and SOCW 2314.

SOCW 3370 Interviewing Culturally Diverse Spanish-Speaking Clients [4.5-0]

fall

This course is designed to increase the student's ability to culturally relate to Spanish-speaking ethnic groups and to be able to distinguish between formal and informal colloquial terminologies. Students will have the opportunity to be able to understand various cultural considerations such as folklore, customs, beliefs, diversity of Latinos and their Spanish-speaking variations that impact the interviewing process. Additionally, this course is designed to improve the student's comfort level to communicate effectively with native Spanish-speaking clients and/or patients.

SOCW 4301 Social Work Practice II [3-0]

fall, spring

Designed to provide social work students with knowledge of direct practice with families and small groups using the problem-solving approach. Students will have the opportunity to selectively use concepts and techniques from various models, e.g., systems perspective, psychosocial theory, behavior modification and family-focused work as frameworks to develop strategies in clinical and cross-cultural intervention. Prerequisite: SOCW 3323.

SOCW 4302 Social Work Practice III [3-0]

fall, spring

This course provides students with knowledge of direct practice with communities and large organizational systems. Students will have the opportunity to learn how to apply the problem-solving process to bring about social and economic justice. Prerequisite: SOCW 3323.

SOCW 4311 Research for the Social Services [3-0]

fall, spring

This course introduces students to the scientific method and how it is used by social workers to effect social change, improve the delivery of social services and to evaluate practice. Prerequisite: SOCW 2375 or equivalent.

SOCW 4320 Social Work in Health Care [3-0]

as scheduled

This course focuses on the health care system, clients as consumers of health and health care issues as they relate to social work practice. An examination of health-related settings and the diverse skills, roles and functions of social workers will be studied within a team intervention approach with emphasis on gender, ethnic and cultural aspects of health care. Prerequisite: Junior standing or consent of instructor.

SOCW 4321 Domestic Violence in Society [3-0]

fall, spring, summer

This course will examine the phenomenon of domestic violence. Students will have the opportunity to study family structure in which violence occurs, the range of abuse (from verbal to homicide) and its extent in society and the various attitudes toward it. Understanding of the basic theories, identification of support services and systems for victims of

domestic violence and development of basic communication skills for assisting the victims will be expected of the student. Prerequisite: Junior standing or consent of instructor.

SOCW 4352 Substance Abuse Counseling  
in the Community [3-0]

as scheduled

Patterns of street substance abuse, community education and agency consultation, resource evaluation of such support systems as AA, halfway houses, networking, divergency programs, therapy with the abuser and family are emphasized as follow-up and outreach social work intervention at the community level. Counseling processes studied will include vocational rehabilitation. Cultural assessment, evaluation of treatment effectiveness and legal-ethical issues will be examined in the context of social service delivery. Prerequisite: Junior standing or consent of instructor.

SOCW 4353 Integrative Field Seminar [3-0]

This course is taken concurrently with SOCW 4619 Field Education. A seminar format facilitates the intern's integration of the field education experience and the program's generalist curriculum. Emphasis is placed on linking classroom learning with practice in the field and integrating theory with professional practice. Field practicum situations and issues are used for discussion and analysis.

SOCW 4399 Independent Studies [3-0]

as scheduled

Designed to give students experience in research or in-depth theoretical/empirical in a substantive area not normally covered within standard courses. Research projects or advanced readings will vary according to student interest and faculty availability. Prerequisite: Consent of instructor.

SOCW 4619 Field Education [0-0-36]

fall, spring

This course requires a minimum of 480 hours (four days a week for one semester) of in-the-field experiences in established social agencies or community settings under joint supervision of the agency social worker and a Department of Social Work faculty member. SOCW 4619 is taken concurrently with SOCW 4353. Prerequisite: Approval by the Office of Field Instruction.

## Spanish

MCLL 2301 Special Topics in Modern/  
Classical Literature [3-0]

This special topics course explores the literary manifestations of the classical and modern world. Using a historical approach to the study of literature, the students examine the evolution of literary genres or movements in classical and modern cultures. The objective of this course is to expand the student's knowledge of the human condition and human cultures, especially in relation to behaviors, ideas and values expressed in literary works.

SPAN 1301 Beginning Spanish [3-0]  
(Texas Common Course Number is SPAN 1313.)

fall, spring, summer

A course designed to develop the ability to understand, speak, read and write the Spanish language. Open only to persons who are monolingual. Credit Restriction: A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1302 Beginning Spanish [3-0]  
(Texas Common Course Number is SPAN 1314.)

fall, spring, summer

A continuation of SPAN 1301. Credit Restriction: A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388. Prerequisite: SPAN 1301.

SPAN 1303 Beginning Spanish [3-0]  
(Texas Common Course Number is SPAN 2313.)

fall, spring, summer

A course designed to develop the ability to read and to write the Spanish language. For students who are bilingual. Credit Restriction: A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1304 Beginning Spanish [3-0]  
(Texas Common Course Number is SPAN 2315.)

fall, spring, summer

A continuation of SPAN 1303. Credit Restriction: A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388. Prerequisite: SPAN 1303.

SPAN 1387 Beginning Spanish  
(Honors Plan) [3-0]

as scheduled

A beginning Spanish course designed to meet the needs of Honors students interested in learning to read and write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. Credit Restriction: A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1388 Beginning Spanish  
(Honors Plan) [3-0]

as scheduled

A beginning Spanish course designed to meet the needs of Honors students interested in learning to read and write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. Credit Restriction: A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388.

SPAN 2301 Technical Spanish I [3-0]

In this course we will review grammatical structures and introduce the student to technical terminology in Spanish. The student will have the opportunity to read and translate technical texts. We will discuss cultural aspects affecting technology in the Hispanic world. Prerequisite: SPAN 1302 or 1303.

- SPAN 2302 Technical Spanish II [3-0]  
This course is a continuation of SPAN 2301. The student will have the opportunity to apply the knowledge acquired in Spanish technical terminology to the writing of technical and business reports related to engineering and science. Prerequisite: SPAN 2301.
- SPAN 2307 Intermediate Spanish for Native Speakers [3-0]  
(Texas Common Course Number is SPAN 2311.)  
fall, spring, summer  
A comprehensive review of Spanish grammar with special emphasis on writing. Prerequisite: SPAN 1304.
- SPAN 2308 Intermediate Spanish for Native Speakers [3-0]  
(Texas Common Course Number is SPAN 2312.)  
fall, spring, summer  
A continuation of SPAN 2307. Prerequisite: SPAN 2307.
- SPAN 2318 Intermediate Spanish for the Health Professions II [3-0]  
fall, spring  
Continued development of medical terminology in Spanish, interpreting from English to Spanish in clinical contexts and development of patient interviewing skills in Spanish. Prerequisite: SPAN 2317
- SPAN 3301 Spanish Literature (from 1100 to 1750) [3-0]  
as scheduled  
A survey of the literature of Spain from El Cid to the middle of the 18th century. Prerequisite: SPAN 2308.
- SPAN 3302 Spanish Literature (1750 to the present) [3-0]  
as scheduled  
A survey of the literature of Spain from Romanticism to the Modern period. Prerequisite: SPAN 2308.
- SPAN 3303 Advanced Spanish Composition [3-0]  
as scheduled  
Intensive training in Spanish composition. Prerequisite: SPAN 2308.
- SPAN 3304 Advanced Spanish Composition [3-0]  
as scheduled  
Additional work in composition. Prerequisite: SPAN 2308.
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology [3-0]  
as scheduled  
An analysis of the phonetic and phonological system of Spanish with special emphasis on the relationship between the phonetic system and writing. Prerequisite: SPAN 2308.
- SPAN 3309 Techniques of Literary Analysis [3-0]  
as scheduled  
A study and practical application of the fundamentals of literary criticism. Several different approaches to literary analysis will be presented in order to construct a solid basis for the interpretation of literature. Prerequisite: SPAN 2308.
- SPAN 3310 Masterpieces of Spanish-American Literature I [3-0]  
as scheduled  
An investigation of the literary works of the principal narrators, poets and dramatists of Spanish America from the beginnings of Spanish colonialism to modernism. Analysis of form and content and study of the historical background and literary currents in each work. Prerequisite: SPAN 2308.
- SPAN 3311 Masterpieces of Spanish-American Literature II [3-0]  
as scheduled  
An investigation of the literary works of the principal narrators, poets and dramatists of Spanish America from modernism to the present. Analysis of form and content and study of the historical background and literary currents in each work. Prerequisite: SPAN 2308.
- SPAN 3316 The Mexican Novel [3-0]  
as scheduled  
The study of the major novels of Mexico. Prerequisite: SPAN 2308.
- SPAN 3319 Introduction to Hispanic Linguistics [3-0]  
fall, spring, summer  
An overview of the scientific study of the Spanish language. A general introduction to linguistic theories followed by application to the phonology, morphology, syntax and language variation and change in Spanish. Prerequisite: SPAN 2308.
- SPAN 3330 Spanish Grammar [3-0]  
as scheduled  
A study of grammatical concepts with concentration on basic sentence structure, the paragraph, principles of punctuation and functional grammar. Course designed for Spanish majors and minors as well as those interested in bilingual endorsement. Prerequisite: SPAN 2308. Prerequisites for aspirants to bilingual/bicultural endorsement: SPAN 2308 and ENG 3319.
- SPAN 3334 Business Spanish [3-0]  
fall, spring  
Review of basic principles and Spanish nomenclature of political economy, accounting, marketing, management and finance. Theory and practice of commercial and civil registers. Correspondence and report writing.
- SPAN 3340 Introduction to Latin American Literature [3-0]  
fall, spring, summer  
An introduction to the major literary movements and figures of Latin America from pre-Columbian times to the present. Focuses on the roles of race, class, gender and ethnicity of literary canons in Latin America. Prerequisite: Spanish 2308.

- SPAN 3341 Introduction to Spanish Literature [3-0]  
fall, spring, summer  
An introduction to the major literary movements and figures of Spain from medieval times to the present. Highlights major works that have influenced world literature. Prerequisite: SPAN 2308.
- SPAN 3343 Spanish Language Media Studies [3-0]  
fall, spring, summer  
Introduction to the methods and styles of coverage of new trends and events in Spanish focusing on both writing and diction. Practice in writing newspaper articles and newscast scripts for radio and television. Practice in English and Spanish translation for the media.
- SPAN 3348 Advanced Spanish Composition for the Health Professions [3-0]  
fall  
Theory and practice of translation of health related texts in Spanish. Writing for health promotion and health education in Spanish. Writing for audiences with varying degrees of Spanish literacy. Prerequisite: SPAN 2318
- SPAN 4303 Spanish Civilization [3-0]  
as scheduled  
A survey course covering the entire range of Iberian history outlining the major differences between Spanish culture and the cultures of other Western nations. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4304 Spanish Lyric Poetry [3-0]  
as scheduled  
A survey of lyric poetry from the beginning to the present. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4305 Cervantes [3-0]  
as scheduled  
A study of the principal works of Miguel de Cervantes with particular emphasis on Don Quixote. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4306 History of the Spanish Language [3-0]  
as scheduled  
A detailed study of the Spanish language from the beginning to the contemporary period. Historical aspects of each period will be discussed to relate the contributions of different people whose language contributed to the development of the Spanish language. Prerequisite: SPAN 2308.
- SPAN 4307 Spanish-American Novel [3-0]  
as scheduled  
Begins with a study of literary and historical influence in the 19th century Spanish-American Gaucho and Costumbrista novels and those showing European influence: Guiraldes, Blest Gana, Gamboa. Examination of recent literary trends: Mallea, Sabato, Roa Bastos, Vargas Llosa. Prerequisite: SPAN 2308.
- SPAN 4308 Medieval Spanish Literature [3-0]  
as scheduled  
A study of the principal literary works of Spain from El Cid to the Romancero. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4309 Contemporary Spanish Literature [3-0]  
as scheduled  
A study of the principal literary works of Spain from the Generation of 1898 to the present. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4311 Mexican Literature I [3-0]  
as scheduled  
A study of the principal works of Mexican literature beginning with the period of the Spanish conquest until 1850. Prerequisite: SPAN 2308.
- SPAN 4315 Spanish Applied Linguistics [3-0]  
fall, spring  
An overview of the application of linguistic theories to the acquisition and development of the Spanish language as a first language, as a second language and as a heritage language. Prerequisite: SPAN 3330
- SPAN 4316 Problems and Issues Related to Language [3-0]  
as scheduled  
Concentrated study of language theory, language acquisition, functions and role of language in society, and current trends and problems related to the topic. Prerequisite: SPAN 2308.
- SPAN 4317 Golden Age Prose [3-0]  
fall, spring  
A critical study of the most representative works of Golden Age Spain. Given in Spanish. Prerequisite: SPAN 2308.
- SPAN 4318 Theater and Poetry of the Golden Age [3-0]  
as scheduled  
Study of the principal dramatists and poets of the Golden Age such as Lope de Vega, Tirso de Molina, Juan Ruíz de Alarcón, Garcilaso de la Vega, Fernando de Herrera, Luis de Góngora and others. Prerequisite: SPAN 2308.
- SPAN 4325 Caribbean Literature [3-0]  
as scheduled  
A critical review and analysis of Caribbean literature with emphasis on the literary techniques and the cultural reflection in the literature.
- SPAN 4329 Mexico's Contemporary Literature [3-0]  
as scheduled  
An investigation of Mexico's latest literature taking into account the psychological effects stemming from the industrial surge, the problems of the migration of the poor, the rebirth of the malinchista spirit, the new identity and the erosion of old traditions in the last two decades. Prerequisite: SPAN 2308.

SPAN 4330 Spanish Sociolinguistics [3-0]  
fall, spring  
An overview of the study of the Spanish language in its social context. Topics include language variation, language maintenance and shift, language mixing, and language policy. Prerequisite: SPAN 2308

SPAN 4335 Spanish-English Legal Translation [3-0]  
fall, spring  
Intensive practice in the translation from Spanish to English and English to Spanish of selected documents from legal, business and medical fields.

SPAN 4336 Grammar and Composition [3-0]  
as scheduled  
The study of the Spanish language applicable to the concerns of secondary school classroom teachers and the acquisition of skills and knowledge essential to testing and teaching advanced grammar and composition are the goals of this course. Prerequisite: SPAN 2308.

SPAN 4337 Eighteenth Century Spanish Literature [3-0]  
fall, spring  
A survey of the literature of Spain covering the neoclassic from Feijoo to Fernández de Moratín. Prerequisite: SPAN 2308.

SPAN 4338 Nineteenth Century Spanish Literature [3-0]  
as scheduled  
A survey of the literature of Spain covering the two main literary movements: Romanticism and Realism. Prerequisite: SPAN 2308.

SPAN 4339 The Spanish-American Short Story [3-0]  
as scheduled  
A study of the evolution of this genre in Spanish-American literature themes, techniques and literary movements will be investigated. The writers studied in this course will include: Echeverría, Palma, Gutiérrez, Nájera, Quiroga, Borges, García Márquez, Fuentes and others.

SPAN 4340 The Spanish-American Essay [3-0]  
fall, spring  
A study of this genre in Spanish-American literature. Themes, content, style and literary movements will be studied.

SPAN 4348 Sociolinguistics and Latino Health [3-0]  
spring  
An overview of language barriers in healthcare and their effects on Spanish speaking populations in the U.S. Review of language in healthcare policy. Analysis of language access measures to eliminate language barriers including medical interpreting and language concordant providers. Prerequisite: SPAN 2308

SPAN 4391 Special Topics in Hispanic Linguistics [3-0]  
spring  
A capstone seminar designed for focused study of a single topic of importance in the field of Hispanic linguistics. Topics may include Spanish in the United States, History of Spanish in the Americas, Heritage Language Teaching, Language Policy, etc. (May be repeated twice for credit as topic varies.)

SPAN 4392 Special Topics in Hispanic Literatures [3-0]  
spring  
A capstone seminar designed for focused study of a single topic of importance in the field of Hispanic literature. Topics may include in-depth study of a single author, a group of authors or a literary movement. (May be repeated twice for credit as topic varies.)

## Special Education

SPED 1305 Introduction to the Exceptionalities [3-0]  
fall, summer

Focus of this course will include the identification and analysis of characteristics of exceptional individuals. This includes various characteristics of the exceptionalities and the educational and treatment needs through the lifespan. Historical and current social, cultural, legal, educational and professional topics related to the development of special education will be covered. Course may be taken without admission into the College of Education.

SPED 2304 Adaptations for Individuals with Disabilities [3-0]  
spring, summer

The focus of this course will be assistive technology on software and equipment to meet the educational needs of individuals with disabilities. Course may be taken without admission into the College of Education.

SPED 3302 Theories of Learning Disabilities [3-0]  
spring, summer  
This course surveys the theories basic to the study of learning disabilities. The course emphasizes the inactive learner theory and related cognitive and metacognitive learning strategies. Prerequisite: SPED 1305 or consent of the instructor.

SPED 3320 Survey of Exceptionalities [3-0]  
fall, spring, summer  
This course provides an overview of the nature of disabilities and special education services. The content of the course will primarily focus on the definitions and characteristics of exceptionalities. This course provides an introduction to individual differences among children and youth who have been determined to differ significantly from their peers in terms of mental, physical, and emotional characteristics. It

is also a brief introduction to those educational and related programs and services that are collectively known as special education in contemporary public schools. Prerequisite: None

SPED 3321 Inclusion Issues [3-0]  
fall, spring, summer

The content of this course includes modifications, adaptations, strategies, and materials for including individuals with exceptionalities into the regular education classroom. An emphasis will be placed on the role of the general education teacher in the special education process. Prerequisite: Admission to the College of Education

SPED 3322 Literacy Intervention for  
Students with Disabilities [3-0]

fall, spring, summer  
The content of this course will include an in depth study of strategies for improving the reading and written language skills of students with disabilities. The course will emphasize knowledge and skills related word identification, word recognition, vocabulary development, written composition, and writing mechanic instruction. Prerequisite: Admission to College of Education

SPED 3323 Behavioral Interventions [3-0]  
fall, spring, summer

The emotional and behavioral problems of exceptional children and youth are considered in the context of normal child development. A survey of the major categories of emotional and behavioral disabilities includes identification, description, and etiology, with material drawn from clinical, theoretical, and research sources. Approaches to remediation cover both community resources and the roles of various professional personnel. These include basic principles of applied behavior analysis and modification, which employ social learning theory, and operant conditioning models are taught. Emphasis is placed on designing individual environments selecting and implementing behavior. Prerequisite: Admission to the College of Education

SPED 3324 Related Services [3-0]  
fall, spring, summer

This course is designed to prepare students to become interpreters of medical information concerning major disabilities and to provide an understanding of the psychosocial and post-secondary (transition) factors encountered by students with disabilities. Focus will be on how these factors affect post-secondary adjustment to a disability, and U.S. legal requirements related to students with disabilities. Topics include concepts of medical and psychosocial aspects of disability and how assistive technology, legal issues, and post-secondary issues can help the child with disabilities. Prerequisite: Admission to the College of Education

SPED 3325 Curriculum Based Evaluation [3-0]  
fall, spring, summer

This course focuses on knowledge and skills in assessing learners with exceptionalities. It provides a survey

of the knowledge base related to appraisal in special education, including formal, norm-referenced testing and comprehensive coverage of informal, curriculum-based assessment. Assessment procedures will focus on academic areas which comprise the primary general education curriculum. Prerequisite: Admission to the College of Education

SPED 4300 Testing and Assessment  
of Exceptional Individuals [3-0]

fall, summer  
The content of this course will include norm and criterion referenced measures, systematic observational procedures and clinical observation techniques. There will be an emphasis on the assessment of individuals with disabilities who are at variance linguistically and socioculturally. Field experiences are required. (Field-Based Approved Course.) Prerequisite: SPED 1305.

SPED 4301 Strategies, Methods and Materials  
for Teaching Individuals with  
Mild to Moderate Disabilities [3-0]

fall, spring  
This course will include topics such as learning styles, cooperative learning, whole language, manipulatives, materials and strategies for teaching individuals with disabilities. Field-based experiences are required. Prerequisite: SPED 1305 or consent of instructor.

SPED 4303 Theories of Social Competence  
and Behavioral Interventions [3-0]

fall, summer  
The content of this course includes the diverse intervention processes and theories in social skills intervention, behavior modification, cognitive-behavioral strategies and crisis prevention intervention. Field experiences are required. Prerequisite: SPED 1305 or consent of instructor.

SPED 4309 Program Planning of Secondary  
Special Education [3-0]

fall, spring  
This course will address the needs of secondary special education students, including vocational and career assessment, vocational programming and transitional planning. Field experiences are required. (Field-Based Approved Course.) Prerequisite: SPED 1305 or consent of instructor.

## Statistics

STAT 2330 Elementary Statistics  
and Probability [3-0]

as scheduled  
This course is intended to provide students with an elementary overview of the mathematical nature and uses



of descriptive and inferential statistics. Topics include the definition and fundamental theorems concerning measures of central tendency and dispersion, empirical and theoretical concepts of probability, the central limit theorem, tests of hypotheses, interval estimation, chi-square tests, and regression and correlation. Equivalent Course: MATH 2330; credit may be received for only one course. Prerequisite: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

STAT 2335 Introduction to Biostatistics [3-0]  
fall, spring, summer

Topics include introduction to biostatistics; biological and health studies and designs; probability and statistical inferences; one- and two-sample inferences for means and proportions; one-way ANOVA and nonparametric procedures. Equivalent course: MATH 2335. Credit may be received in only one of MATH 2335 and STAT 2335. Prerequisites: MATH 1334 with a grade of C or better or satisfactory score on ACT or placement exam.

STAT 3337 Applied Statistics I [3-0]  
as scheduled

This course concerns itself with probabilistic models, regression analysis, nonparametric statistics and the basics of experimental design. Computer laboratory experience will be an important part of the course. Equivalent Course: MATH 3337; credit may be received for only one course. Prerequisites: Junior standing and either MATH 1340 or MATH 1341. It is highly recommended that the student have some knowledge of statistics such as is offered in STAT 2330.

STAT 3338 Applied Statistics II [3-0]  
as scheduled

This course is the continuation of MATH/STAT 3337 and includes special designs, multiple comparisons, analysis of variance and covariance, multiple regression, and coding. Equivalent course: MATH 3338. Credit may be received in only one of MATH 3338 or STAT 3338. Prerequisite: MATH 3337 or STAT 3337.

STAT 4336 Sampling [3-0]  
as scheduled

This course surveys the basic elements of sampling, including concepts of population and sample, the organization of a sample survey, coverage content error, questionnaire design, basic survey designs and computation of estimates and variances. Equivalent course: MATH 4336. Credit can be received for only one of MATH 4336 and STAT 4336. Prerequisite: MATH/STAT 2330 with a grade of C or better.

## Other

UNIV 1301 Learning Framework [3-0]  
as scheduled  
The purpose of the course is to provide an opportunity for

students to understand the psychology of learning and its application to their own university experience and to their chosen major/profession. The course will focus on the assessment, understanding and application of the psychology of learning, cognition and motivation.

## Women's Studies

WMST 1301 Introduction to Women's Studies [3-0]

as scheduled  
This course is an introductory study of the status, roles and representations of women in society. Topics include interdisciplinary approaches to social variables such as gender, class and ethnicity as they intersect in women's lives.

WMST 2301 Women's Studies Theory, Method and Practice [3-0]

as scheduled  
This course builds on the core concepts, theories and methodologies particular to women's studies scholarship and examines the historical unfolding of the multiplicity of analytical perspectives applicable to the field. Prerequisite: WMST 1301 with a C or better.

WMST 3307 Women in Music [3-0]  
as scheduled

The course introduces students to women composers in Western culture from Hildegard von Bingen (1098-1179) to the present. Course content includes biographical information, contributions to music and listening. This course provides an opportunity for students to learn about artistically creative women as well as the elements, structure and appreciation of music and musical styles.

WMST 3308 Emerging Female Identity [3-0]  
as scheduled

This course will focus on the emerging identity of women in the literary works of the American South and Southwest since 1960. Although several themes, such as family life, geography and migration will be examined, the development of the female individual and the quest for identity as represented in works of different generations and regions will be emphasized.

WMST 3309 Women's Health Issues [3-0]  
as scheduled

This course is designed to introduce the student to theories, concepts, practices and issues related to women's health, with an emphasis on self care. Psychosociocultural, political and ethicolegal factors will be addressed and analyzed. Prerequisites: WMST 1301 and WMST 2301. Cross-listed as NURS 3309 Women's Health Issues.

WMST 3310 Latin American Women's Studies Special Topics [3-0]

fall

This course will introduce students to the growing and diverse field of women's and gender history as it pertains to Latin America. It will examine the experiences, roles, and contributions of women in politics, economics, labor and culture, and it will also examine the construction of gender within the Latin American context. The time period, focus, and geographical area will change according to the specialty of the instructor. Prerequisites: WMST 1301, WMST 2301

WMST 3338 Gender Development in International Context [3-0]

fall, spring, summer

Using current knowledge regarding gender role socialization in the United States as a frame of reference, this course examines how societies create and attach meaning to the categories of male and female. It explores the differential effects of worldwide trends as they intersect gender roles and opportunities available to women in the context of economic globalization. This course promotes awareness of gendered cognitive development, appreciation for the diversity of identities of men and women and enhanced critical thinking about social justice and gender-just society. Equivalent Course: May be counted as PSY 3338; a student may receive credit in only one course.

WMST 3341 Women's Rhetoric and Language [3-0]

spring

This course provides a focus on rhetoric and language in women's experiences. Related topics will include the contribution women have made to the Western rhetorical tradition as well as the consideration of the differences in actual language uses and conventions by and about women.

WMST 3342 Ethnic Women Writers [3-0]

spring

This course provides a focus on women's writing from a multicultural perspective. Centered on the study of literary works and literary theory either by or about women, this course offers a global perspective and pursues insights about various approaches to the question of ethnic women and their representation.

WMST 3343 Women's Literature [3-0]

spring

This course provides a focus on literature by women and the contributions that such literature has made to a variety of cultural and social contexts. The focus will be on feminist perspectives and theories in critical analysis.

WMST 3344 Gender, Crime and Criminal Justice [3-0]

as scheduled

The course will focus on female criminality, gendered victimization, punishment/treatment/correction of female offenders, female inmate subculture and women workers in the criminal justice system. Social ideologies about race, class and gender will be examined as to their relevance in shaping and defining crime, criminology and the socio-legal

treatment of offenders, victims and professionals.

WMST 3375 Women in History óTopics [3-0]  
as scheduled

This course will introduce students to the growing and diverse field of women's and gender history. It will examine the experiences, roles and contributions of women in politics, economics, labor and culture. The time period, focus and geographical area will change according to the instructor. Suggested topics include Mexican American-Chicana History and Latina History.

WMST 3376 Feminist Theories [3-0]  
as scheduled

This course is designed to examine the variety of existing feminist theories and their roots in diverse modes of philosophical analysis. It will explore how various feminist theories are consonant with or diverge from their base theories and from each other and whether such theories are still cogent. Methodology will incorporate both feminist pedagogy and traditional philosophical analysis, including feminist critique of the tradition. Prerequisite: PHIL 1310.

WMST 3377 Latin American Women In the Modern Era [3-0]

as scheduled

In this course, students will examine the changes that have taken place in the conceptualization, gendered roles, and overall status of women in Latin American societies from 1910 to the present. Major focuses will include the heritage of gender within both Hispanic and Indigenous cultural milieus, the factors contributing to changes in traditional roles during the early and middle twentieth centuries, and the changes still in progress. In addition to traditional texts, the course would include work by major women authors such as Isabel Allende and Elena Poniatowska. May be repeated twice for credit. Prerequisite(s): WMST 1301. WMST 2301

WMST 3378 Women in Colonial Latin America [3-0]

as scheduled

This course will introduce key texts in the history of women in Latin America from pre-conquest times to the independence period. The aim of this course is to study the presence and participation of women in history and to provide the tools for analyzing primary sources, posing important questions in the field and critically thinking about historiographical issues. The focus and geographical area will change according to the specialty of the instructor. May be repeated twice for credit. Prerequisite(s): WMST 1301. WMST 2301

WMST 3379 Chicana Latin American Feminisms [3-0]

as scheduled

This course is designed to explore Chicana and Latin American forms of feminisms, including their philosophies, history, and social movements. May be repeated twice for credit. Prerequisite(s): WMST 1301. WMST 2301

WMST 3380 Gender in U.S. Politics [3-0]  
as scheduled  
This course examines multidimensional aspects of gender and political life in the United States. The course analyzes the relationship among gender, culture, political behavior and public policy, and explores the historical evolution of the role of women in the U.S. political system.

WMST 3381 Women and Global Political Movements [3-0]  
as scheduled  
This course analyzes women's social and political movements in a global context. The course provides a comparative examination of women's political and social participation and development.

WMST 4301 Capstone Seminar in Women's Studies [3-0]  
as scheduled  
This seminar course is designed to emphasize the various intersections of women's opportunities and constraints across social variables, categories and institutions. Students will discuss, design, research, construct and present a project on topics relevant to issues addressed in women's studies. Topics and assignment particulars may vary by instructor. Prerequisites: WMST 1301, WMST 2301, at least two cross-listed WMST advanced electives (all with a C or better), and consent of program coordinator.

WMST 4302 Special Topics in Women's Studies [3-0]  
fall, spring, summer  
Special Topics in Women's Studies is designed to give students the flexibility to study different issues and concerns in the field of Women's and gender studies. Courses will vary according to instructor and student interest. The course may be repeated as topics change. Prerequisite: WMST 2301

WMST 4309 The Anthropology of Women [3-0]  
fall  
This course is concerned with anthropological studies done by women and about women, and studies of gender roles and gender inequality beginning in the late 19th century. Employing a historical perspective, it encourages critical assessment of gender studies and uses cross-cultural studies to focus on gender in certain aspects of social life. Prerequisites: ANTH 1323 or consent of instructor.

WMST 4310 Gender in a Global Perspective [3-0]  
fall, spring, summer  
An exploration of the sociological meaning of gender and gender roles in contemporary society. The focus is on the status of women v's-â-v's that of men in the institutional structure family, marketplace, school and political-legal arena. The nature and the causes of sex role differentiation, of changing sex roles and the future of sexual equality will be discussed. Prerequisite: Six hours of sociology or social studies or consent of instructor.

WMST 4330 Gender Research in

Social Psychology [3-0]  
fall, spring, summer  
The course examines gender in research taken from articles found within the peer-reviewed professional journals in social psychology. Prerequisite: Any statistics course.

## 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:

- ï Middle States Association of Colleges and Schools
- ï New England Association of Schools and Colleges
- ï North Central Association of Colleges and Schools
- ï Northwest Association of Schools and Colleges
- ï Southern Association of Colleges and Schools
- ï Western Association of Schools and Colleges

### Accreditation — High School

A high school in Texas is considered accredited if it is recognized by the Texas Education Agency (TEA). High schools outside of Texas are considered accredited if they are recognized by their state accreditation agency.

### Advanced-level Work

Courses numbered 3000-4000 are advanced or upper-division courses. Courses numbered 3000 are designated as junior level, and 4000-numbered courses are designated as senior level. Approval of the department chair or dean of the college is required for enrollment in advanced-level courses by students who have not reached junior standing. Students

who have not passed all portions of the TASP exam may not enroll in any advanced-level coursework if, upon completion of the work, the student would have completed 60 or more hours.

### Attempted Hours

Attempted hours are the total number of hours for courses that a student has attempted, including failing grades such as “F,” “DF” and “WF.” Repeated courses, failing grades over seven years old, incomplete grades and credit (CR) grades are not included in attempted hours at the undergraduate level.

### Census Date

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

### Common Course Number

If the course is generally equivalent to other lower-division courses taught at universities and community colleges within the state, the Texas Common Course Number is shown in the course description for informational purposes. See page 27 for further information.

### Contact Hours

Number of regularly scheduled hours per week that a lecture, laboratory or clinical experience is scheduled to meet during a long semester. (See [3-0] above.)

### Coursework in Residence

Coursework in residence refers to coursework actually completed on the UT Pan American campus. Extension, credit by examination, and transfer credit may not be used to complete the residency requirement for graduation.

### Dean’s List

After each regular semester, a dean’s list is published listing the names of all undergraduate students enrolled in a minimum of 12 college-level hours who have a grade point average of 3.5 or better for courses taken that semester. A dean’s list is not produced during the summer sessions.

### Designated Electives

Students have choices within the category of designated electives but must complete the required number of courses or hours from those specified.

### Elective Hours

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

### Entering Freshman

A student admitted as an entering freshman has not attended any accredited college or university.

### Full-time Graduate

A graduate student who is enrolled for at least nine hours of credit during a regular semester, or at least four

hours of credit during a summer session, is considered fulltime.

### Full-time Undergraduate

An undergraduate student who is enrolled for at least 12 semester hours during a regular semester, or at least six hours of credit during a summer session, is considered fulltime.

### Half-time Graduate

A half-time graduate student is one who is enrolled for six to eight hours of credit during the regular semester or three hours of graduate credit during a summer session.

### Half-time Undergraduate

A half-time undergraduate student is one who is enrolled for six to 11 semester hours during the regular semester or three hours of credit during a summer session.

### Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for nine to 11 semester hours during the regular semester.

### Hours

College credit at UT Pan American is measured in terms of semester credit hours. Ordinarily, a class that meets one 50-minute period per week for a regular semester will carry a credit of one hour. The majority of classes meet three periods or their equivalent each week and carry three hours of credit. Two or three laboratory hours per week are usually required for one hour of laboratory credit.

### Leveling Work

Coursework designed to eliminate deficiencies in educational background of students admitted or being considered for admission to a graduate program is called leveling work. (Graduate programs are designed on the assumption that students have a common body of knowledge.)

### Maximum Course Load

The maximum load for a full-time undergraduate student is 18 hours in a regular semester and 15 for each summer session. Students may be permitted to enroll for additional hours with the approval of his or her undergraduate advisor and the dean of the college.

### MTEL

The MTEL (Michigan Test of English Language) is one of the two major English-language proficiency tests for non-native speakers of English. The other exam is the TOEFL (Test of English as a Foreign Language). Only the TOEFL is administered at UT Pan American.

### Prerequisite

A course listed with a prerequisite means that specified requirements must be met before one can enroll in the course. Specific prerequisites are listed in course descriptions.

**Probation**

Students are placed on scholastic probation when they fail to achieve the required overall grade point average. Students may be placed on disciplinary probation for infraction of any University regulation. In either case, they must satisfy specific requirements before they can return to a non-probationary status. For further information, refer to the section in this catalog on scholastic probation and suspension on page 67 for undergraduate students and to the Graduate Catalog for graduate students. The Student Conduct and Disciplinary Code is discussed on page 87.

**Regular Semester**

A regular semester is any 15-week fall or spring semester.

**Returning Student**

A student whose last institution attended was UT Pan American is admitted as a returning student after an absence of at least one regular semester.

**Semester (see Regular Semester)****Special Student**

A student holding at least a bachelor's degree from an accredited institution who does not wish to enter the graduate school may be permitted to register as a special student in one of the undergraduate colleges and is subject to all rules and regulations of that college.

**Special Graduate Student**

Special graduate students are those holding a master's degree from an accredited institution who do not wish to enter a graduate program but wish to attend courses.

**Summer Session**

As part of its regular program, the University offers two summer sessions, each five-and-one-half weeks long.

**Three-Quarter Time Undergraduate**

A three-quarter time undergraduate student is one who is enrolled for nine-11 semester hours during the regular semester.

**Transfer Students**

Students admitted as transfer students have last attended an accredited college or university other than, or in addition to, UT Pan American.

**Upper Division (see Advanced-level Work)**

## Faculty Listing

Abebe, Michael Alemayehu, Assistant Professor, Department of Management, Marketing and International Business; Management, Ph.D., Southern Illinois University Carbondale, 2008.

Abraham, John P., Professor, Department of Engineering and Computer Engineering; Networking; Ed.D., University of Houston, 1986.

Acevedo Jr., Baltazar A., Professor, Department of Educational Leadership; Director, Center for Applied Research in Education; Southwest Texas State University, 1969; MA, Western Michigan University, 1974; Ph.D., The University of Texas at Austin, 1979.

Adair, Penelope A., Associate Professor, Department of History and Philosophy; History; Ph.D., University of California-Santa Barbara, 1993.

Adams, Clara, Senior Lecturer, Psychology and Anthropology.

Affeldt, Robert J., Assistant Professor, Department of English; Language and Rhetoric; Ph.D., The University of New Mexico, 2001.

Agbese, Aje-Ori, Assistant Professor, Department of Communication; Writing for the Mass Media, Copy Editing, Mass Media Law and Ethics, Intercultural Communication; Ph.D., Bowling Green State, 2004.

Aguirre, Maria Teresa, Clinical Assistant Professor, Department of Clinical Lab Science, MS, Biology, The University of Texas-Brownsville, 2008

Ahluwalia, Punit, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D.

Ahmad, Hassan, Professor and Department Chair, Department of Chemistry; Biochemistry; Ph.D., Aligarh Muslim University, 1983.

Ahn, Seokyoung, Assistant Professor, Department of Mechanical Engineering; Mechanics of Solids, Motion Element Design, Modern Control Systems, Introduction to Laser Material Processing, Optimal Control; Ph.D., The University of Texas at Austin, 2005.

Alaniz, Martha Senior Lecturer, Department of Psychology and Anthropology.

Aldridge, James W., Jr., Professor, Department of Psychology and Anthropology; Psychology, Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

Alfaro, Edna Crystal, Assistant Professor, Department of Psychology and Anthropology, Ph.D., The University of Texas-Pan American, 2009.

Alianak, Sonia, Associate Professor, Department of Political Science; Comparative Government, International Relations, American Government; Ph.D., The University of Texas at Austin, 1987.

- Almaguer, Isela, Associate Professor, Department of Curriculum and Instruction; Curriculum and Instruction, Emphasis on Teacher Education; Ed.D., University of Houston, 2003.
- Alvarado, Frances E., Professor, Department of Mathematics; Elementary Algebra, Intermediate Algebra, College Algebra, Business Algebra, Trigonometry; MEd, The University of Texas-Pan American, 1994.
- Alvarado, Sylvia Michelle, Lecturer, Department of Undergraduate Studies, MS, Texas A&M, College Station, 1997.
- Alvarado, Victor, Professor, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.
- Alvarez Martinez, Stephanie, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature.
- Ambriz, Frank, Program Chair and Assistant Professor, Physician Assistant Studies Program; Pediatrics, Pulmonology, Internal Medicine; BS, The University of Texas Medical Branch-Galveston, 1979.
- Amorim, George Jaques, Lecturer, Department of Music and Dance, Doctoral of Music and Dance, University of North Texas, Master of Music in Double Bass Performance, 2003.
- Anabila, Andrew A., Assistant Professor, Department of Accounting and Business Law, Ph.D., Columbia University, 2003.
- Andaverdi, Saul, Lecturer, Department of Mathematics, Mathematics, Master in Mathematics, The University of Texas-Pan American, 2007.
- Anderson, Erik Ryan, Lecturer, Department of History and Philosophy; Philosophy, MA in Philosophy, A & M University, 2001.
- Anderson-Mejias, Pamela, Professor, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.
- Andoh-Baidoo, Francis, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Commonwealth University, 2006.
- Ann, Eun, Lecturer, Department of Math.
- Anshen, David W., Assistant Professor, Department of English; Ph.D., State University of New York at Stony Brook, 2004.
- Anzaldua, Nancy, Lecturer, Department of Health and Kinesiology.
- Appiahene-Gyamfi, Joseph, Associate Professor, Department of Criminal Justice; Criminology, International Criminal Justice, Corrections; Ph.D., Simon Fraser University, 1999.
- Ardalani, Elvia G., Assistant Professor, Department of Modern Languages and Literature; Spanish; Ed.D., Texas A&I University-Kingsville, 1990.
- Arizmendi, Lydia González, Associate Professor, Department of Social Work; Generalist Social Work Practice and Marco Practice; J.D., University of California-Davis, 1978; MSW, University of Michigan-Ann Arbor, 1973.
- Armstrong, Blake, Senior Lecturer, Department of Social Work.
- Arredondo, Sonja L., Lecturer, Department of Social Work., MAS.
- Asgharian, Laleh, Lecturer, Department of Science and Engineering.
- 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.
- Ayala, Marion, Lecturer, Department of Business Administration.
- Baez, Nalda, Assistant Professor, Department of Modern Languages and Literature; Latin American Literature, MS, Purdue University, 2002.
- Baik, Ellen R., Assistant Professor, Department of Political Science, Ph.D.
- Baker, Willard R., Clinical Assistant Professor, Physician Assistant Studies Program, MAS.
- Balci, Tamer, Assistant Professor, Department of History and Philosophy; History, Ph.D. in History, Claremont Graduate University, 2007.
- Balogh, Andra's, Associate Professor, Department of Mathematics; Mathematics; Ph.D., Texas Tech University, 1997.
- Banatoski, Edward, Lecturer, Department of Electrical Engineering; Ph.D., The University of Texas at Arlington, 2000.
- Banik, Bimal K., Professor, Department of Chemistry; Organic Chemistry; Ph.D., Jadavpur University-India.
- Barrera, Iran, Assistant Professor, Department of Social Work, Ph.D., The University of Texas at Arlington, 2008

Bautista, Beatriz (Betty), Lecturer, Department of Nursing; MSN, University of South Carolina-Columbia, 1990.

Bede, Barnabas, Assistant Professor, Department of Mathematics, Mathematics, Ph.D., Universitae Babes-Bolyai, 2004.

Behar, Stella, Professor, Department of Modern Languages and Literature; French; Ph.D., University of California at Los Angeles, 1991.

Belau, Linda, Associate Professor, Department of English; Philosophy, Literature, and the Theory of Criticism; Ph.D., State University of New York at Binghamton, 2000.

Ben Ghalia, Mounir, Associate Professor, Department of Electrical Engineering; Systems Modeling and Robust Control, Robotics, Neural Networks, Knowledge-Based Systems; Ph.D., Tennessee Technological University, 1995.

Benham, Grant, Associate Professor, Department of Psychology and Anthropology; Psychology; Ph.D., The University of Tennessee-Knoxville, 2000.

Bernard, John E., Professor, Department of Mathematics; Mathematics Education; Ph.D., The University of Texas at Austin, 1978.

Bhat, Narayan, Professor 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., Assistant Professor, Department of Rehabilitation Services; Ph.D., Southern Illinois University.

Blomquist, Melinda, Lecturer, Department Music and Dance; Dance; MA, Brigham Young University, 1998.

Bokina, John, Professor, Department of Political Science; Political Theory, Western and Eastern Europe; Ph.D., University of Illinois, 1979.

Borrego, Espiridion A., Associate Professor, Department of Public Administration.

Bose, Ramendra, Assistant Professor, Department of Mathematics, Applied Mathematics, PhD, State University of New York, 1973

Bose, Subhash C., Beecherl 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. (expected 2009), University of Connecticut.

Bowe, George, Lecturer, Department of Criminal Justice.

Bracken, Paul, Associate Professor, Department of Mathematics; Applied Mathematics; Ph.D., University of Waterloo, Ontario-Canada, 1995.

Bradley, Robert C., Assistant Professor, Department of Art, Ph.D., in Art History, Columbia University, 2005.

Braithwaite, Jean, Assistant Professor, Department of English.

Brazier, Pearl W., Associate Professor, Department of Computer Engineering and Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brewerton, F.J., Professor, Department of Management, Marketing and International Business; Management; DBA, Louisiana State University, 1968.

Brickman, Stephanie J., Associate Professor 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.

Broz, Virginia, Lecturer, Department of English

Brush, Timothy, Professor, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Buckman, Kenneth L., Associate Professor, Department of History and Philosophy; Philosophy, Continental Philosophy, Oriental Philosophy, Social Philosophy, 19th and 20th Century Philosophy; Ph.D., Southern Illinois University, 1990.

Bullard, Jim, Assistant Professor, Department of Chemistry,

- Ph.D., University of Montana, 1996.
- Bustamante, Juan, Lecturer, Department of Sociology, MS, The University of Texas-Pan American, 2004.
- Butler, Alley C., Professor, Department of Manufacturing Engineering.
- Cabrera, Fernando, Clinical Specialist, Department of Nursing.
- Cadena, Maria, Senior Lecturer, Department of Biology.
- Cain, Roy E., Associate Professor, Department of Psychology and Anthropology; Psychology, Physiological Psychology, Biofeedback, Psycho-Physiology, Stress Management; Ph.D., University of Houston, 1972.
- 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, Lecturer, Department of Nursing; MSN, The University of Texas Health Science Center-Houston, 1994.
- Calderon Galdeano, Emily, Lecturer, Department of Political Science.
- Canty, Dean R., Associate Professor, Department of Music; High Brass, University Band Director, Jazz Ensemble Director; DMA, The University of Texas at Austin, 1980.
- Carlson, David, 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.
- 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.
- Chalaire, Mary, Lecturer, Department of English.
- Chamberlain, Jenny, Senior Lecturer, Department of Sociology.
- Chandler, Karen, Department Coordinator, 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.
- Charleston, Santiago, Lecturer, Department of Physics and Geology.
- Charlton, Colin T., Assistant Professor, Department of English.
- Charlton, Jonikka P., Assistant Professor, Department of English; Ph.D., Purdue University, 2005.
- Chebotko, Artem V., Assistant Professor, Department of Computer Science, Ph.D., Wayne State University, 2008.
- Chen, Haiwei, Associate Professor, Department of Economics and Finance; Finance, Ph.D., Emory University, 1998.
- Chen, Roy Kuan-Yu, Assistant Professor, Department of Rehabilitation Services.
- Chen, 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.
- 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., Assistant Professor, Department of English; Comparative Literature; Ph.D., University of California at Los Angeles, 2002.

Chu, Mark, Assistant Professor, Department of Electrical Engineering.

Chu, Yul, Assistant Professor, Department of Electrical Engineering, Ph.D., University of British Columbia, 2007.

Chua, Ansley Chan, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., Florida State University.

Coberly, Rebecca A., Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, Texas Tech University, 2009.

Cole, Deborah L., Assistant Professor, Department of English; Ph.D., University of Arizona-Tucson, 2004.

Contreras, Salvador, Assistant Professor, Department of Economics and Finance; Economics, Ph.D., Claremont University, 2007.

Contreras, Victoria, Professor, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Texas at Austin, 1989.

Corpuz, Edgar, Assistant Professor, Department of Physics and Geology; Physics; Ph.D., Kansas State University, 2006.

Cortes, Angelica, Associate Professor, Department of Management, Marketing and International Business; Marketing; Ph.D., University at Albany-CT, 1997.

Cortez, Jose, Lecturer, Department of Physics and Geology.

Cortina, Maria Guadalupe, Associate Professor, Department of Modern Languages and Literature; Ph.D., University of Arizona, 1996.

Cripps, Cynthia, Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, University of Miami, 2006.

Crisafulli, Anthony, Professor and Chair, Department of Art.

Crossler, Robert Ernest, Assistant Professor, Department of Computer Information Systems, Ph.D., Virginia Tech University, 2009.

Crown, Stephen W., Professor, Department of Engineering; Mechanical Engineering; Ph.D., University of Colorado, 1993.

Croyle, Kristin, Associate Professor, College of Social and

Behavioral Sciences, Associate Professor, Department of Psychology and Anthropology; Ph.D., The University of Montana, 2000.

Crutchfield, Ruth, Lecturer, Department of Communication Sciences and Disorders, MA, The University of Texas-Pan American, 1997.

Cruthirds, Kevin, Senior Lecturer, Department of Management, Marketing and International Business Law.

Cruz, Gustavo, Lecturer, Department of Mathematics, MS, The University of Texas-Pan American, 2007.

Cunningham, Mark A., Associate Professor, Department of Physics and Geology; Physics; Ph.D., Yale University, 1982.

Curts, James B., Associate Professor, Department of Curriculum and Instruction; Ph.D., University of Wisconsin, 1985.

Dabrowski, Peter P., Professor, Department of Music; Valley Symphony Conductor; DMA, Northwestern University, 1998.

Dambreville, Laurence, Lecturer, Department of English.

Damianov, Damian, Assistant Professor, Department of Economics and Finance.

Daniel, Clay L., Associate Professor, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark, Professor, Department of Criminal Justice; Police Administration, Police Issues, Research Methods; Ph.D., The University of Texas at Arlington, 1989.

Darcy, John, Associate Professor, Department of Accounting and Business Law; Ph.D., The University of Oklahoma, 2002.

Darsow, Fred, Associate Professor, Department of Music and Dance; Dance Choreography; MFA, Arizona State University, 1998.

David, Pierre, Lecturer, Department of Music and Dance.

Dávila, Alberto, Neuhaus Professor and Chair, Department of Economics and Finance; General Business, Economics; Ph.D., Iowa State University, 1982.

Davis, Richard, Associate Professor, Department of Music and Dance; Voice; DMA, Indiana University, 1985.

Davis, Virginia, Assistant Professor, Department of Music and Dance, Ph.D. in Music, University of Arizona, 2005.

Dean, André, LTC, Chair, Department of Military Science; ROTC 4401, 4403; MPA, The University of Texas at Austin,

- 1990.
- Debnath, Lokenath, Professor and Chair, Department of Mathematics; Pure and Applied Mathematics, Mathematical Physics; Ph.D. (Pure Mathematics), University of Calcutta, 1965; Ph.D. (Applied Mathematics), University of London, 1967.
- DeLassus, Phillip, Professor, Department of Chemistry; Physical Chemistry; Ph.D., The University of Chicago, 1972.
- De Kock, Maria, Lecturer, Department of English.
- De La Cruz, Marcie, Senior Lecturer, Department of Sociology.
- De La Pena, Antonio, Lecturer, Department of Biology.
- DeLeon, Leticia, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of Houston, 2005..
- Delgado, Diana, Clinical Specialist, Department of Nursing.
- De los Santos, Miguel A., Associate Professor, Department of School Administration and Supervision; Educational Administration; Ph.D., The University of Texas at Austin, 1980.
- De Souza, Carlos Roberto, Assistant Professor, Department of Art, Ph.D. in Art History, University of California, Santa Barbara, 2008.
- Dearth, Daniel K., Associate Professor, Department of Criminal Justice; Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence; Ph.D., Sam Houston State University, 1984.
- Dearth, Robert Keith, Assistant Professor, Department of Biology, Ph.D., Texas A&M University, 2003
- Desai, Chintal Ajitbhai, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., The George Washington University, 2008.
- deSharp, Monica Diaz, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature; Ph.D., Indiana University, 2002.
- Devanaboina, Madhavi, Lecturer, Department of Mathematics, MS, Texas A&M University, 2004.
- DeYoe, Hudson, Professor, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.
- Diaz, Hector L., Professor and Chair, Department of Social Work.
- Diaz, Maria I., Assistant Professor, Department of Nursing.
- Diaz, Sylvia, Lecturer, Department of Chemistry; MA, The University of Texas at Austin, 2000.
- Dietrich, Gustavo G., Lecturer, Department of Computer Science; Programming Languages and Methodology; MS, Texas A&M University-Kingsville, 1988.
- Dimakis, Nikolas, Assistant Professor; Department of Physics and Geology; Ph.D., Illinois Institute of Technology-Chicago, 1997.
- Dirrgil, Frank, Assistant Professor, Department of Biology, Ph.D., University of Connecticut, 1998.
- Dominguez, Armando, Senior Lecturer, Department of Sociology.
- 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, Ardath L., Lecturer, Department of Biology; Anatomy and Physiology, Vertebrate Biology; MS, Pan American University, 1988.
- Egle, David L., Lecturer, Department of Computer Science; Numerical Analysis, Systems Programming, Computer Organization; MS, Texas A&M University, 1977.
- 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.

Erdem, Orelia, Clinical Lab Specialist, Department of Nursing.

Ernst, Frederick A., Professor, College of Social and Behavioral Sciences, Professor, Department of Psychology and Anthropology.

Escamilla, Marianita, Lecturer, Department of English.

Esquierdo, Jennifer J., Assistant Professor, Department of Curriculum and Instruction.

Estrada, Veronica L., Associate Professor, Department of Curriculum and Instruction; Curriculum and Instruction Education; Ph.D., The Ohio State University, 1997.

Ethridge, Philip, Associate Professor, Department of Criminal Justice; Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law; Ph.D., Sam Houston State University, 1990.

Eyambe, George Sona, MT (ASCP), Associate Professor, Clinical Laboratory Science Immunology; Ph.D., University of North Texas, 1991.

Faraji, Bahram, Program Coordinator and Professor, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of California, 1982.

Farooqi, Mohammad, Ibrahim Husain, 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 "Chad", Assistant Professor, Department of Art, MFA, Texas Tech University-Commerce, 2006.

Farruggio, Peter, Assistant Professor, Department of Curriculum and Instruction; Ph.D., University of California-Berkley, 2004.

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Faulkes, Zen, Associate Professor, Department of Biology; Neurobiology and Ethology; Ph.D., University of Victoria, 1996.

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Foltz, Heinrich D., Professor and Chair, Department of Electrical Engineering; Ph.D., The University of Texas at Austin, 1993.

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- Freeman, Samuel, Associate Professor, Department of Political Science; Political Parties, U.S. Presidency, Congress, Foreign Policy; Ph.D., University of Kentucky, 1978.
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- Galstyan, Anahit, Assistant Professor, Department of Mathematics; Ph.D., University of Cincinnati-Ohio, 2005.
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- Garcia, Elizabeth, Lecturer, Department of Communication.
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- Garza, Gavino, Lecturer, Department of Health and Kinesiology, MS, The University of Texas-Pan American, 2004.
- Garza, Joe M., Lecturer, Department of Management, Marketing and International Business.
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- Garza, Teresa, Lecturer, Department of English.
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- Gasquoin, Philip, Associate Professor, Department of Psychology and Anthropology.
- Gilbert, Robert, Assistant Professor, Department of Art, MFA, California State University, 1995.
- Gilson, Gregory, Assistant Professor, Department of History and Philosophy; Ph.D., University of Wisconsin-Madison, 1998.
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- Hinthorne, James, Senior Lecturer, Department of Physics and Geology.
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- Hoppens, Robert James, Assistant Professor, Department of History and Philosophy, Ph.D., in History, University of Washington, 2009.
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- Huber, Timothy J., Assistant Professor, Department of Mathematics, Ph.D., University of Illinois, 2007.
- Huddle, John W., Lecturer, Department of English; Creative Writing; MFA, University of Houston, 2000.
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- 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.
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- Johnson, Randall, Lecturer, Department of Health and Kinesiology.
- 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.
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- Jorgensen, Layne, Professor and Graduate Program Coordinator, Department of Health and Kinesiology; Biomechanics and Research Methods; Ph.D., Louisiana State University, 1971.
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Koong, Kai S., Professor and Chair, Department of Computer Systems and Quantitative Methods; Ph.D., Mississippi State University, 1987.

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Liu, Lai, Associate Professor, Department of Computer Information Systems and Quantitative Methods; Ph.D., Mississippi State University, 1989.

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Lowdermilk, John L., Assistant Professor, Department of Educational Psychology; Assistive Technology; Ph.D., University of North Texas, 2004.

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Mahon, Joan, Lecturer, Department of Nursing, Ph.D., Texas Woman's University, 2001.

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