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THE UNIVERSITY OF TEXAS PAN AMERICAN

GENERAL INFORMATION



UNDERGRADUATE CATALOG 2013-2015

The University of Texas-Pan American 2013-2015 Undergraduate Catalog

The University of Texas-Pan American is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award bachelors, masters and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about accreditation. In addition, specific programs are separately accredited or approved by the following:

Accreditation Council for Education in Nutrition and Dietetics (ACEND)
Accreditation Council for Occupational Therapy Education (ACOTE) - American Occupational Therapy Association
Accreditation Review Commission on Education for the Physician Assistant
American Speech-Language-Hearing Association (ASHA) - Council on Academic Accreditation (CAA)
Commission on Collegiate Nursing Education (CCNE) and the Board of Nurse Examiners for the State of Texas
Accreditation Board for Engineering and Technology (ABET) - Computing Accreditation Commission (CAC)
Accreditation Board for Engineering and Technology (ABET) - Engineering Accreditation Commission (EAC)
National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
National Association of Schools of Music (NASM)
National Association of Schools of Theatre (NAST)
Texas Education Agency (TEA) - State Board for Educator Certification (SBEC)
The Association to Advance Collegiate Schools of Business (AACSB International)
The Council on Rehabilitation Education (CORE)
The Council on Social Work Education (CSWE)

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

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 www.utpa.edu/catalog.

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

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, express 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 current and prospective students.



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, sexual orientation, gender identity, or gender expression, 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 and VII 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, as amended.

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Inquiries or complaints may be directed to the immediate supervisor, the Equal Opportunity Compliance Officer, in REIN 1.106-C; telephone (956)665-2103, the compliance officer in Administration Building, Room 324; telephone (956) 665-2110, the chair of the department or the Dean of Students in University Center, Room 104; telephone (956) 665-2260. Inquiries concerning ADA should be directed to the coordinator of services for persons with disabilities in Room 108 University Center ; telephone (956) 665-7005.

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

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The University of Texas- Pan American Fall 2013 through Summer III 2015 Calendar

Dates and deadlines for applications for student loans, scholarships or other sources of 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 testing information, contact the University Testing Center at (956) 665-7584, ext. 7585, or e-mail testing@utpa.edu.

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

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

For the most up-to-date admission application deadlines, go to the Undergraduate Admissions website at http://portal.utpa.edu/utpa_main/dsa_home/admissions_home/admissions_deadlines

For the most up-to-date registration dates, view the Registrar's website at: http://portal.utpa.edu/utpa_main/dsa_home/registrar_home

For the most up-to-date published graduation application deadlines, go to the Registration Bulletin accessible through the Registrar's website at: http://portal.utpa.edu/utpa_main/dsa_home/registrar_home

Fall 2013

August 22, 2013, Thursday

Housing move-in for students participating in Bronc Round-up.

August 24, 2013, Saturday

Housing move-in for returning students.

August 26, 2013, Monday

First day of classes.

September 2, 2013, Monday

Labor Day holiday, no classes, campus closed.

September 11, 2013, Wednesday

Twelfth class day, census date.

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

September 24, 2013, Tuesday

Last day to change to course to non-credit.

November 26, 2013, Monday

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

November 27, 2013, Wednesday

Residence Halls close at 5 p.m. for Thanksgiving

November 28-30, 2013, inclusive

Thanksgiving holiday, no classes.

December 2, 2013, Sunday

Residence Halls reopen at noon.

December 5-6, 2013, inclusive

Study days, no classes or final examinations without written approval of the Dean.

December 7-13, 2013, inclusive

Fall semester final examinations.

December 13, 2013, Friday

Residence Halls close at noon for winter break

December 14, 2013, Saturday

Commencement exercises.

December 16, 2013, Monday

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

Spring 2014

January 12, 2014, Sunday

Residence Halls reopen at noon for spring semester

January 13, 2014, Monday

First day of classes.

January 20, 2014, Monday

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

January 29, 2014, Wednesday

Twelfth class day, census date.

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

February 11, 2014, Wednesday

Last day to change course to non-credit.

March 7, 2014, Friday

Residence Halls close for Spring Break at 5 p.m.

March 9-14, 2014, inclusive,

Spring Break, no classes.

March 16, 2014, Sunday
Residence Halls reopen at noon.

April 18-19, 2014, inclusive
Easter holiday, no classes.

April 23, 2014, Monday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.

May 1-2, 2014, inclusive
Study days, no classes or final examinations without written approval of the dean.

May 3-9-, 2014, inclusive
Spring semester final examinations.

May 9, 2014, Friday
Residence Halls close at 5 p.m. for spring semester

May 10, 2014, Saturday
Commencement exercises.

May 12, 2014, Monday
Final grades to be entered by faculty no later than 3 p.m.

Miniterm 2014

May 9, 2014, Friday
Mini-term move in

May 12, 2014, Monday
First day of classes.

May 13, 2014, Tuesday
Second class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

May 26, 2014, Monday
Memorial Day holiday, no classes, campus closed.

May 27, 2014, Tuesday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.

May 28, 2014, Wednesday
Last day of classes.

May 29, 2014, Thursday
Study day, no classes or final examinations without written approval of the Dean.

May 30, 2014, Friday
Miniterm final examinations.
Mini-term housing ends (tentative)

June 2, 2014, Monday

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

Summer I 2014

June 1, 2014, Saturday
Summer I Move-in (tentative)

June 2, 2014, Monday
First day of classes.

June 5, 2014, Thursday
Fourth class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

June 11, 2014, Wednesday
Last day to drop to change course to non-credit.

June 30, 2014, Monday
Last day to drop a course or to withdraw from the University with a grade of DR or W recorded.

July 4, 2014, Friday
Fourth of July holiday, no classes, campus closed.

July 7, 2014, Monday
Summer I housing ends at 5 p.m. (tentative)

July 7, 2014, Monday
Summer I final examinations.
Residence Halls close at 6 p.m.

July 8, 2014, Tuesday
Summer I final grades to be entered by faculty no later than 3 p.m.

Summer II 2014

July 8, 2014, Tuesday
Summer II Housing move-in (tentative)

July 9, 2014, Wednesday
First day of classes.

July 14, 2014, Monday
Fourth class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

July 18, 2014, Friday
Last day to change course to non-credit.

August 6, 2014, Monday
Last day to drop a course or withdraw from the University with a grade of DR or W recorded.

August 12, 2014, Wednesday

Last day of classes.

August 3, 2014, Thursday

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

August 14, 2014, Thursday

Summer II final examinations.

Summer II Housing ends at 5 p.m. (tentative)

August 15, 2014, Friday

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

August 16, 2014, Saturday

Commencement exercises.

Summer III 2014

• 10-week Session •

June 2, 2014, Monday

First day of classes.

June 10, 2014, Tuesday

Seventh class day, census date.

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

June 11, 2014, Wednesday

Last day to change course to non-credit.

July 4, 2014, Friday

Fourth of July holiday, no classes.

August 1, 2014, Friday

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

August 12, 2014, Tuesday

Last day of classes.

August 13, 2014, Wednesday

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

August 14, 2014, Thursday

Summer III final examinations.

August 15, 2014, Friday

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

August 16, 2014, Saturday

Commencement exercises.

Fall 2014**August 21, 2014, Thursday**

Housing move-in for students participating in Bronc Round-up.

August 24, 2014, Saturday

Housing move-in for returning students.

August 25, 2014, Monday

First day of classes.

September 1, 2014, Monday

Labor Day holiday, no classes, campus closed.

September 10, 2014, Wednesday

Twelfth class day, census date.

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

September 23, 2014, Tuesday

Last day to change course to non-credit.

November 25, 2014, Tuesday (tentative)

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

November 25, 2014, Wednesday

Residence Halls close at 5 p.m.

November 26-28, 2014, inclusive

Thanksgiving holiday, no classes.

November 30, 2014, Sunday

Residence Halls reopen at noon.

December 4-5, 2014, inclusive, Thursday-Friday

Study days, no classes or final examinations without written approval of the Dean.

December 6-12, 2014, inclusive, Saturday-Friday

Fall semester final examinations.

December 12, 2014, Friday

Residence Halls close at noon for winter break.

December 13, 2014, Saturday

Commencement exercises.

December 15, 2014, Monday

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

Spring 2015

January 18, 2015, Sunday
Housing move-in begins at noon.

January 19, 2015, Monday
Martin Luther King Day holiday, no classes, campus closed.

January 20, 2015, Tuesday
First day of classes.

February 4, 2015, Wednesday
Twelfth class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

February 18, 2015, Wednesday
Last day to change a course to non-credit.

March 13, 2015, Friday
Residence Halls close for Spring Break at 5 p.m.

March 15-20, 2015, inclusive
Spring Break, no classes.

March 22, 2015, Sunday
Residence Halls reopen at noon.

April 3-4, 2015, inclusive
Easter holiday, no classes.

April 28 2015, Tuesday (tentative)
Last day to drop courses or withdraw from the University with a grade of DR or W recorded.

May 7-8, 2015, inclusive,
Study days, no classes or final examinations without written approval of the Dean.

May 9-15, 2015, inclusive,
Spring semester final examinations.

May 15, 2015, Friday
Residence Halls close at 5 p.m.

May 16, 2015, Saturday
Commencement exercises.

May 18, 2015, Monday
Spring final grades to be entered by faculty no later than 3 p.m.

Miniterm 2015

May 15, 2015, Friday
Housing move-in begins for Miniterm.

May 18, 2015, Monday
First day of classes.

May 19, 2015, Tuesday
Second class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

May 25, 2015, Monday
Memorial Day holiday, no classes, campus closed.

June 2, 2015, Tuesday (tentative)
Last day to drop courses or withdraw from the University with a grade of DR or W recorded.

June 3, 2015, Wednesday
Last day of classes.

June 4, 2015, Thursday
Study Days no classes or final exams

June 5, 2015, Friday
Miniterm final examinations.
Residence Halls close at 5 p.m. (tentative)

June 8, 2015, Monday
Miniterm final grades to be entered by faculty no later than 3 p.m.

August 22, 2015, Saturday
Commencement exercises.

Summer I 2015

June 6, 2015, Saturday (tentative)
Housing move-in begins.

June 8, 2015, Monday
First day of classes.

June 11, 2015, Thursday
Fourth class day, census date.
Courses dropped by this date do not count toward six-course drop limit.

June 17, 2015, Wednesday
Last day to change course to non-credit.

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

July 6, 2015, Monday (tentative)
Last day to drop courses or withdraw from the University with a grade of DR or W recorded.

July 10, 2015, Friday
Last day of classes.

July 13, 2015, Monday
Summer I final examinations.
Residence Halls close at 5 p.m. (tentative)

July 14, 2015, Tuesday

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

Summer II 2015**July 14, 2015, Tuesday**

Housing move-in begins.

July 15, 2015, Wednesday

First day of classes.

July 20, 2015, Monday

Fourth class day, census date.

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

July 24, 2015, Thursday

Last day to change course to non-credit.

August 12, 2015, Wednesday (tentative)

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

August 18, 2015, Tuesday

Last day of classes.

August 19, 2015, Wednesday

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

August 20, 2015, Thursday

Summer II final examinations.

Residence Halls close at 5 p.m. (tentative)

August 21, 2015, Friday

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

August 22, 2015, Saturday

Commencement exercises.

Summer III 2015

10-week Session

June 8, 2015, Monday

First day of classes.

June 16, 2015, Tuesday

Seventh class day, census date.

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

June 17, 2015, Friday

Last day to change course to non-credit

July 4, 2015, Saturday

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

August 7, 2015, Friday (tentative)

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

August 18, 2015, Tuesday

Last day of classes.

August 19, 2015, Wednesday

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

August 20, 2015, Thursday

Summer III Final Examinations.

August 21, 2015, Friday

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

August 22, 2015, 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 serves the social, economic, research and, most importantly, the educational needs of the rapidly growing transnational, culturally diverse population of South Texas. The University Creates, preserves, and transmits knowledge that advances the region, state, and nation and that builds prosperity through entrepreneurship and commercialization. In a supportive environment dedicated to student learning, the University provides quality instruction in rigorous academic programs that leads to bachelors', masters' and doctoral degrees as well as professional certificates.

Through teaching, research, creative activity, and public service, the University prepares students to be socially conscious citizens and transformative leaders.

Vision

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

Values

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

We value students' 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 education that they complete in a timely fashion.
- Identify and focus on targeted research relevant to South Texas, emphasizing collaborative partnerships and entrepreneurship.
- Enhance engagement with the community constituents to meet challenges and maximize opportunities.
- Collaborate with primary, secondary, and post-secondary schools to increase access, participation and success in higher education.
- Leverage the University's border location as a gateway for the Americas to initiate projects infused with global perspectives.
- Optimize the effectiveness and efficiency, especially of processes that affect students, staff and faculty, consistent with high quality organizational standards.

University History

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

1927-1933 Edinburg College was founded as a two-year community college governed by the Edinburg School District. The original building housed 200 students and today is listed as a historical site in the city of Edinburg, the county seat for Hidalgo County.

1933-1948 Edinburg Junior College, as the only institution of higher learning in South Texas, experienced rapid growth in its early years, prompting administrators to pursue the first name change.

1948-1952 Edinburg Regional College was moved from the original four-acre site to a 186-acre campus a few blocks west. During the 1950s and 1960s, the campus was purchased in parcels at a cost of \$677,000.

1952-1971 Pan American College made its transformation from a junior college to a four-year university in the early 1950s. The name Pan American was selected to reflect the institution's desire to bridge the cultures of North and South America and to reflect the cultural and ethnic diversity of the University.

1971-1989 Pan American University saw the student population diversify during the 1970s reflecting a

predominantly Mexican-American population. The Wall Street Journal article credited President Miguel Nevárez with creating a Hispanic middle class for the South Texas region through education.

1989-Present The University of Texas-Pan American was established in 1989 after the successful and historic merger of Pan American University with The University of Texas System.

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

The Students

UTPA has a total of 19,302 students (Fall 2012) representing 39 different states, with the majority from Texas. UTPA enrolls the second highest number and third highest percentage of Hispanics (89.2%) among Texas public universities. Of the total student population, 2,336 are graduate students in over 50 graduate-level programs. According to the Texas Higher Education Coordinating Board's "Closing the Gaps" report, the University will have a fall enrollment of 20,826 students by the year 2015.

According to The Hispanic Outlook in Higher Education 2012, UTPA is among the top 100 best U.S. colleges for Hispanics, and boasts the following rankings

- 1st in Biological and Biomedical Sciences; English Language and Literature; Foreign Languages, Literature, and Linguistics; Health Professions and Related Programs; Rehabilitation and Therapeutic Professions; Mathematics and Statistics; and Multi/Interdisciplinary Studies in bachelor's degrees awarded to Hispanic students.
- 2nd in the number of bachelor's degrees awarded to Hispanics
- 3rd in the number of master's degrees awarded to Hispanics

Degrees and Programs

UT Pan American's seven academic colleges — Arts and Humanities, Business Administration, Education, Engineering and Computer Science, Health Sciences and Human Services, Science and Mathematics, 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)
 Mass Communication (BA)
 Theatre (BA)
 Dance (BA)
 English (BA)
 French (BA)
 History (BA)
 Social Studies Composite 7-12 (BA)
 Mexican American Studies (BA)
 Music (BM)
 Philosophy (BA)
 Spanish (BA)

College of Business Administration

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

College of Education

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

College of Engineering and Computer Science

Civil Engineering (BS)
 Computer Science (BSCS)
 Computer Engineering (BSCMPE)
 Electrical Engineering (BSEE)
 Manufacturing Engineering (BSMFGE)
 Mechanical Engineering (BSME)

College of Health Sciences and Human Services

Clinical Laboratory Sciences (BS)
 Communication Sciences and Disorders (BS)
 Dietetics (BS)
 Nursing (BSN)
 Rehabilitative Services (BS)
 Social Work (BSW)

College of Science and Mathematics

Biology (BS)
 Chemistry (BS)
 Environmental Science (BS)
 Interdisciplinary Studies (BIS)
 Life Science 4-8
 Mathematics 4-8
 Mathematics (BS)
 Physics (BS)
 Physical Science (BS)

College of Social and Behavioral Sciences

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

Interdisciplinary Bachelor's Degrees

General Studies (BGS)

See the College of Social and Behavioral Sciences for information and advisement.

Master's Degrees

College of Arts and Humanities

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

College of Business Administration

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

College of Education

- Bilingual Education (M.Ed.)
- Early Childhood Education (M.Ed.)
- Educational Administration (M.Ed.)
- Educational Diagnostician (M.Ed.)
- Educational Leadership (Ed.D.)
- Elementary Education (M.Ed.)
- Guidance and Counseling (M.Ed.)
- Kinesiology (MS)
- Reading and Literacy (M.Ed.)
- Secondary Education (M.Ed.)
- School Psychology (MA)
- Special Education

College of Engineering and Computer Science

- Computer Science (MS)
- Engineering (MSE)
 - Concentrations in
 - Electrical
 - Manufacturing

- Mechanical
- Engineering Management
- Information Technology (MSIT)

College of Health Sciences and Human Services

- Nursing (MSN)
- Communication Sciences and Disorders (MS)
- Occupational Therapy (MS)
- Physician Assistant Studies (MPAS)
- Rehabilitation Counseling (MS)
- Social Work (MSSW)

College of Science and Mathematics

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

College of Social and Behavioral Sciences

- Criminal Justice (MSCJ)
- Clinical Psychology (MA)
- Experimental Psychology (MA)
- Public Administration (MPA)
- Sociology (MS)

Master of Arts in Interdisciplinary Studies (MAIS)
Concentrations in

- Anthropology
- Global Security Studies and Leadership
- Certification Preparation Programs

College of Education

- Master Reading Teacher
- Licensed Professional Counselor
- Principal's Credential
- Superintendent's Credential

Doctoral Degree

College of Arts and Humanities

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

College of Business Administration

- Business Administration (Ph.D.)

College of Education

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

Graduate Certificates

College of Arts and Humanities

Communication Training and Consulting
Graphic Design
Latin American Art History
Media Relations and Strategic Communication
Mexican American Studies
Secondary English Language Arts

College of Business Administration

Advanced Business Administration
Healthcare Administration and Leadership

College of Social and Behavioral Sciences

Global Security Studies and Leadership Certificate
Board Certified Behavior Analyst

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Student Financial Services Executive Director
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Lourdes Servantes

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Associate Vice President for University Advancement
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and Communications
Kimberly A. Selber, Ph.D.

Director of Alumni Relations
Debby Grant

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 at www.applytexas.org for admission to enroll for a later semester.

Students are admitted to UT 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 in 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. Documents must be sent to:

The University of Texas-Pan American
Admissions and New Student Services
SSVC 1.124
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2999
Voice/Telecommunications
Device for the Deaf: (956) 665-2215
Website: www.newstudent.utpa.edu

Documents required for admission may include all high school and college transcripts. The document must be requested from each individual institution attended. The official transcripts must be sent by the institution directly to Admissions and New Student Services at the above address or may be hand-delivered as long as they are in a sealed envelope from the institution. Information regarding how test scores may be requested can be obtained from:

University Testing Center
CESS Building Room 1.101
1407 E. Freddy Gonzalez Drive
Edinburg, TX 78539
Telephone: (956) 665-7570
Email: testing@utpa.edu
Website: www.utpa.edu/step

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 is available online at www.applytexas.org.

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 and the first workday 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 sections 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:

1. Application for Admission.
2. Official college transcripts from all colleges and universities attended. Transcripts must be sent directly from the institution(s) attended or may be hand-delivered as long as the document is in a sealed envelope from the institution. 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.
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 pg. 61 for further information. Freshmen and transfer students who have fewer than 15 college-level hours must also submit:

4. ACT or SAT scores.
5. High school transcript showing the units completed, grades earned, date of graduation, graduation program type, 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 1500 out of 2400 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 distinguished 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 or 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 submitted documents become the property of UT Pan American. Admission documents will remain on file at the University for five years if the applicant attends UTPA, or for one year if the applicant does not attend. 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 conditionally accepted 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.

Admission Review Requirements

Applicants who do not qualify for automatic admission may be eligible for admission through the University's Admission Review Program. Selected applicants must have successfully completed the curriculum requirements for the Recommended or Distinguished Achievement Plan or its equivalent or satisfy ACT's College Readiness Benchmarks on the ACT assessment applicable to the applicant or earned on the SAT assessment a score of at least 1500 out of 2400 or the equivalent. In addition to the required admission documents, applicants selected for review will be required to submit the following:

1. Personal Letter of Appeal
2. Personal Résumé
3. Letters of Recommendation

Applicants will be individually reviewed with admissions approval or denial decisions based on a combination of the following holistic criteria:

1. Academic Record
2. Extracurricular Activities
3. Work-related Activities
4. Leadership Roles
5. Community Activities
6. Performance Level of the Applicant's School
7. Prior College Credit Earned

Suspected Fraudulent Admission Applications

Applicants for admission to UT Pan American should be aware that the information submitted will be relied upon by University officials to determine the applicant's 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, 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 pg. 16 for more information.

FRESHMAN ADMISSION

Applicants who have not attended a college or university after graduating from high school, or students transferring less than 15 academic college hours, may seek admission as a freshman. Freshmen will be accepted to UT 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 pg. 22 on Transfer Admission).

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 UT Pan American.*

International Baccalaureate Diploma Program Recipients

Applicants who receive an International Baccalaureate Diploma will be automatically admitted to UT 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.

Other Applicants

Entering freshmen, who achieve the following standards, may also be admitted to UT Pan American.

Minimum Admission Requirements:

Minimum ACT composite of 18 or SAT score of 860 (math and verbal only) and Texas distinguished or recommended diploma or equivalent.*

Or satisfy one of the following:

1. One point below the current ACT composite requirement and a rank within the top 33 percent of their graduating class; or
2. Two points below the current ACT composite requirement and a rank within the top 25 percent of their graduating class.

**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 (see Texas Administrative Code Rule §74.63 for Graduation Requirements for the Recommended High Program beginning with 2007-2008) :

English Language Arts English I, II, III, IV	4 credits
• 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	
Mathematics	4 credits
Three credits must consist of Algebra I, Algebra II and Geometry	
Science	4 credits
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	
Students are encouraged to take Biology, Chemistry and Physics.	
Social Studies	3 1/2 credits
• 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)	
• Economics 1/2 credit With emphasis on the free enterprise system and its benefits	
Physical Education	1 credit
Language other than English	2 credits
2 credits must consist of Level I and Level II in the same language.	
Fine Arts	1 credit
Speech	1/2 credit
• Communication Applications	
• Professional Communications	
Electives	5 ½ credits
TOTAL	26 credits

State of Texas Uniform Admission Standards

Per state law, The Uniform Admissions Policy (TEC 51.803-51.809) requires that all students must meet one of the following college readiness standards in order to be eligible for consideration for admission at a Texas four-year public institution:

- Successfully complete the recommended or advanced (distinguished) high school program or complete the portion of the program that was available to them.
- Successfully complete a curriculum that is equivalent in content and rigor to the recommended or advanced (distinguished) high school program at a high school that is exempt from offering such programs.
- Satisfy the College Readiness Benchmarks on the SAT or ACT assessment:
SAT- 1500 out of 2400
ACT- 18 English, 21 Reading, 22 Math and 24 Science

Students graduating from private high schools in Texas or out-of-state high schools can be documented by the students' high school using one of the forms:

TPHSC-Form 1: Students who graduated in 2010 or before from Texas private schools, Texas public schools and out-of-state schools.

TPHSC-Form 2: Students who will graduate in 2011 or after from Texas private schools, Texas public schools and out-of-state schools.

NTHSC-Form 1: Students who graduated in 2010 or before from out-of-state schools.

NTHSC-Form 2: Students who will graduate in 2011 or after from out-of-state schools.

General Education Development (GED) Applicant:

Applicants who did not graduate from an accredited high school but who have successfully passed all five-subject tests and received a GED certificate may be considered for admission to UTPA.

The State of Texas Uniform Admissions Policy also applies to GED graduates. Since a GED graduate cannot provide curriculum information, either the ACT College Readiness Benchmarks or the required SAT assessment scores must have been achieved for admittance to a Texas general academic teaching institution. Therefore, an application will not be processed if the SAT or ACT scores are not included for consideration in the application.

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 educational experience. The Honors experience is one that fosters long-term intellectual and personal growth. Membership in the Guerra Honors Program is a privilege, a commitment, and a voyage of excellence.

Guerra Honors Program Requirements

To fulfill GHP requirements and graduate with honors, students may choose to follow one of three different coursework tracks during their time in the program (for details about these tracks, please visit the GHP website at www.utpa.edu/honors). Importantly, the Honors Program strives to allow students to move through the program by taking as few courses outside students' major degree plans as possible. That is, honors students are not required to enroll in significantly more courses than non-honors students. Finally, GHP graduates must have a cumulative GPA of 3.5 or higher and must successfully complete all requirements of their chosen track.

Students who graduate as a 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.

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 as well as experiential learning.
- 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.

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 most of the following minimum criteria are eligible to apply:

I. Entering Freshmen:

- ACT Composite of 24 or higher
- SAT of 1110 or higher
- New SAT of 1670 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 3.5 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. Although students may apply at any point in their academic career, they are encouraged to apply as early as possible, preferably as freshmen. Once admitted, students must maintain a minimum GPA of 3.5. To apply, please visit www.utpa.edu/honors.

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 Student Financial Services. Contact the Guerra Honors Program

For an application or additional information about the Rafael A. "Felo" and Carmen Guerra Honors Program, please contact:

Guerra Honors Program
1201 West University Drive
Lamar 130
Edinburg, TX 78539-2999
Phone: (956) 665-3461
Fax: (956) 665-2484
E-mail: honors@utpa.edu
Web: www.utpa.edu/honors

Concurrent Enrollment Program for High School Students

UT Pan American provides two types of Concurrent Enrollment Programs-- the High School to University Program (On-Campus Attendance and Distance Learning) and the Independent Student Program (On-Campus Attendance only). Both programs are designed to give eligible 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 completion of their courses and 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 Scholarship Program upon regular admission to the University. For more information contact the Scholarship Office at (956) 665-2935.

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. Student must be classified as high school junior or senior graduating under the Recommended or Distinguished graduation plan.
2. Must meet one of the following criteria:
 - Be ranked in the Top 10% of their class OR
 - Have a 90 GPA or higher (GPA must be on a 100-point scale) OR
 - Meet one of the following composite scores: ACT of 22 or higher, or SAT of 1030 (using only the Critical Reading and Math sections).
3. Complete the Concurrent Enrollment application process.
4. Meet deadlines for Concurrent Enrollment admissions.

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. Student must be classified as high school junior or senior graduating under the Recommended or Distinguished graduation plan.
2. Must have an ACT composite of 22 or SAT composite of 1030, (critical reading and math only).
3. Rank in the top 10% of graduating class OR have a 90 or above GPA in academic courses*.
4. Meet deadlines for Concurrent Enrollment admissions.

** 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.*

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 Authorization Form
- High school transcript that includes graduation date, graduation plan type, class ranking and GPA (on a 100-point scale)
- ACT or SAT scores
- For all students under 30 years of age, submit proof of Bacterial Meningitis Vaccination
- Placement test scores fulfilling the Texas Success Initiative (TSI) and/or course pre-requisites. Students will not be permitted to register or will be dropped if TSI requirements are not met.

All admission documents for Concurrent Enrollment must be submitted to:

The University of Texas-Pan American
Admissions and New Student Services
1201 West University Dr.
Edinburg, TX 78539-2999
Phone: (956) 665-2999
Fax: (956) 665-2687

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. To continue participating in Concurrent Enrollment, participants 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's graduation date and graduation plan type
2. The student has earned all the credits required for high school graduation.
3. The student's class rank and grade point average (on 100-point scale)

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 required to attend Freshman Orientation.

Concurrent Enrollment Summer Housing Program

During the summer, the Concurrent Enrollment Program has a limited Room & Board Housing Scholarship for qualified students who may have difficulty traveling to the UTPA campus to attend class. There is a separate application process for this limited CE Summer Housing Scholarship which is highly competitive due to the limited number of scholarships available.

Call Admissions and New Student Services at (956) 665-2999 or email at ce@utpa.edu for more details

The University of Texas-Pan American
Admissions and New Student Services
1201 West University Dr.
Edinburg, TX 78539-2999
Phone: (956) 665-2999
Fax: (956) 665-2687

Readmission

There are three types of student that may be considered for re-admissions; (1) Continuing students who are returning after leave of a semester; (2) returning transfers; and (3) returning re-admits who are coming back after leave of more than a year.

(1) Students who last attended UT Pan American are considered continuing students after an absence of at least one regular semester. These students do not have to re-apply for admission as long as they did not attend another institution during their absence. These students will remain active in the system and will be allowed to re-enroll as long as they are in good academic standing or have served his or her period of suspension (students will be readmitted on academic probation). Continuing students must also clear any academic or financial holds before enrollment will be permitted.

(2) 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. 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 transfer coursework attempted.

(3) If students seeking readmission have been absent from UTPA for more than one semester, a "readmit" admission application must be submitted at www.applytexas.org.

Students who are returning after an extended absence are required to meet with an advisor. Students with 0-59 college hours will be advised with the University Academic Advising Center (UAAC), and 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 University Academic Advising 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. Official transcripts, from each institution attended, 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 transfer 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 15 hours must also meet Freshman Admission requirements (see pg. 18).

Transfer of Undergraduate Credits

Transfer of regular academic credit to or recognition of degrees from another institution by UT Pan American involves 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; and
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 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 educational 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. The appropriate academic or administrative office will normally make these evaluations.

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 include it on the transcript. However, because of its content, 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 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

In addition to the above mentioned degree/transfer plans, UTPA provides a host of transfer resources on the Admissions and New Student Services website at www.newstudent.utpa.edu. The Transfer Course Equivalency Guide (found under the "Resources" tab at 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 website at www.newstudent.utpa.edu or call (956) 665-2999.

Transfer Credit Guidelines

The grading policies of UT 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 kept as incomplete until a letter grade has been posted by the transferring institution.
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 regionally 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:** Courses such as remedial or developmental reading and math, 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 by filling out a "Second Degree Evaluation Form." This form can be picked up at the Admissions office located in the Visitors Center or can be downloaded online at www.utpa.edu/admissionforms. Completion of a baccalaureate degree at another accredited institution will fulfill UT 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 an additional minimum of 30 hours of credit in UT Pan American courses and any other University and departmental requirements for the second degree as stipulated in the catalog.

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 and New Student Services.
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 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 pgs. 25-27 lists the courses UT Pan American has identified as common and their TCCNS equivalents. Before using this table, students should make sure the institution they attend employs the TCCNS. Course availability varies from institution to institution.

Only courses that have direct equivalents are shown. Courses at other TCCNS institutions that do not have a direct UTPA equivalent will be evaluated for transferability on a case-by-case basis. 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 pg. 22 for complete transfer of course credit regulations.)

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 Health Science Center at San Antonio
- The University of Texas Medical Branch at Galveston
- The University of Texas at Austin
- The University of Texas at Dallas
- The University of Texas at San Antonio

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

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

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

Texas Common Course Numbering System 2013-2015

UTPA Course Equivalent

ACCT	2301	Principles of Accounting I-Financial
ACCT	2302	Principles of Accounting II-Managerial
ANTH	2302	Introduction to Archaeology
ANTH	2346	General Anthropology
ANTH	2351	Cultural 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
ASTR	1304	Solar System
ASTR	1403	Stars and Galaxies
ASTR	1404	Solar System
BCIS	1305	Business Computer Applications
BIOL	1406	Biology for Science Majors I
BIOL	1407	Biology for Science Majors II
BIOL	2401	Anatomy & Physiology I
BIOL	2402	Anatomy & Physiology II
BIOL	2406	Environmental Biology
BIOL	2428	Vertebrate Zoology
CHEM	1111	General Chemistry I (Lab)
CHEM	1112	General Chemistry II (Lab)
CHEM	1305	Introductory Chemistry I
CHEM	1311	General Chemistry I

Texas Common Course

ACC	2301	Introduction To Financial Accounting
ACC	2302	Fundamentals Of Managerial Accounting
ANTH	1342	Introduction To Archaeology
ANTH	1323	Introduction To Cultural Anthropology
ANTH	1354	The Anthropology of Expressive Culture
ART	1301	Art Appreciation
ART	2351	Ancient Art of the West
ART	2352	Western Art 1000-1840 AD
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
ASTR	2301	Solar System Astronomy
ASTR	1402	Introductory Astronomy II
ASTR	1401	Introductory Astronomy I
CIS	1301	Computer Information Systems
BIOL	1401	General Biology
BIOL	1402	General Biology
BIOL	2403	Anatomy & Physiology
BIOL	2404	Anatomy & Physiology
BIOL	2406	Environmental Biology
BIOL	2402	Comparative Vertebrate Anatomy
CHEM	1101	General Chemistry Lab I
CHEM	1102	General Chemistry Lab II
CHEM	1300	Introduction Chemistry
CHEM	1301	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	1307	Introduction to Mass Communication
COMM	1318	Photography I (Journalism emphasis)
COMM	1336	Television Production I
COSC	1319	ASSEMBLY Language Programming I
COSC	1330	Computer Programming
COSC	1336	Programming Fundamentals I
COSC	1436	Programming Fundamentals I
COSC	2318	PASCAL Programming II
CRIJ	1301	Introduction to Criminal Justice
CRIJ	1306	Court Systems & Practices
CRIJ	1307	Crime in America
CRIJ	2313	Correctional Systems & Practices
CRIJ	2328	Police Systems & Practices
DANC	1110	Tap I
DANC	1112	Dance Practicum I
DANC	1141	Ballet I
DANC	1147	Jazz Dance I
DANC	1151	Dance Performance I
DANC	1152	Dance Performance II
DANC	1222	Folk I
DANC	1228	Ballroom I
DANC	1241	Ballet I
DANC	1245	Modern Dance I
DANC	1247	Jazz Dance I
DANC	1249	Ballet Folklorico I
DANC	2303	Dance Appreciation I
DRAM	1310	Introduction to Theater
DRAM	1341	Makeup
DRAM	1342	Introduction to Costume

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	1315	Mass Communication and Society
COMM	1308	Photography
COMM	2304	Television Production
CSCI	2333	Computer Organization & Assembly Language
CSCI	1380	Computer Science I
CSCI	1380	Computer Science I
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	2313	Correctional Systems & Practices
CRIJ	2328	Police Systems & Practices
DANC	2110	Tap Dance I
DANC	2112	Dance Performance: Beginning/Intermediate
DANC	2144	Ballet Technique: Pointe I
DANC	2120	Jazz Dance I
KIN	1160	Performance Dance -Folkloric
KIN	1161	Performance Dance-Dance Ensemble
DANC	1222	Folk and Square Dance
DANC	1228	Ballroom Dance
DANC	1241	Ballet I Primary
DANC	1245	Modern Dance I Primary
KIN	2230	Modern Jazz Dance
DANC	1249	Folklorico I Primary
DANC	2323	Dance Appreciation
COMM	2312	Theatre Appreciation
COMM	2319	Make-Up
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 Macroeconomics
ECON	2302	Principles of Microeconomics	ECON	2302	Principles Of Microeconomics
EDUC	1301	Introduction to the Teaching Profession	EDCI	1301	Introduction to the Teaching Profession
ENGL	1301	Composition I	ENG	1301	Rhetoric & Composition I
ENGL	1302	Composition II	ENG	1302	Rhetoric & Composition II
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	1204	Engineering Graphics I	MECE	1221	Engineering Graphics
ENGR	2301	Engineering Mechanics I-Statics	MECE	2303	Statics
ENGR	2302	Engineering Mechanics II-Dynamics	MECE	2304	Dynamics
ENGR	2305	Circuits I for Electrical Engineering	ELEE	2320	Electrical Circuits I
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	1325	Math for Business & Social Sciences II (Business Calculus)
MATH	1332	Contemporary Mathematics I
MATH	1342	Elementary Statistical Methods
MATH	2312	Precalculus Math
MATH	2413	Calculus I
MATH	2414	Calculus II
MATH	2415	Calculus III
MUSI	1157	Opera Workshop I
MUSI	1162	Voice Diction I
MUSI	1188	Percussion Class I
MUSI	1190	String Class I
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	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	2425	University Physics I
PHYS	2426	University Physics II
PORT	1311	Beginning Portuguese I

MATH	1341	Business Algebra
MATH	1342	Business Calculus
MATH	1348	Contemporary Mathematics
MATH	2330	Survey Of Elementary Statistics
MATH	1450	Precalculus with Trigonometry
MATH	1460	Calculus I
MATH	1470	Calculus II
MATH	2401	Calculus III
MUS	1109	Opera Workshop
MUS	2120	Diction
MUS	2122	Class Percussion
MUS	2125	Class Strings
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	2330	Introduction to 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	2401	Physics for Scientists & Engineers I
PHYS	2402	Physics for Scientists & Engineers II
PORT	1341	Beginning Portuguese I

PORT	1312	Beginning Portuguese 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	2333	Discussion & Small Group Communication
SPCH	2335	Argumentation & Debate

PORT	1342	Beginning Portuguese II
PSY	1310	Introduction to Psychology
PSY	2401	Basic Statistics for Psychologists
COMD	1310	Beginning Sign Language
COMD	1320	Intermediate Sign Language
SOCI	1313	Principles Of Sociology
SOCI	1323	Current Social Issues
SOCI	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	2316	Small Group Communication
COMM	2317	Argumentation and Debate

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 International Admissions and Services by the designated date.

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

Application Hard Deadlines for students currently NOT studying in another U.S. institution with visa

July 1	(for fall entry)
November 1	(for spring entry)
March 1	(summer minimester)
April 1	(for summer I entry)
May 1	(for summer II entry)

Application Deadlines for students currently studying in another U.S. institution with visa

August 1	(for fall entry)
December 1	(for spring entry)
April 1	(summer minimester)
May 1	(for summer I entry)
June 1	(for summer II entry)

1. International Student Application for Admission (applytexas.org).
2. \$50.00 International Application fee; fee is refundable if you register, pay, and attend classes during the semester for which you apply and are accepted. The application fee is payable by phone at 956-665-2715.
3. Test of English as a Foreign Language (TOEFL) scores or IELTS. Students from countries whose native language is not English are required to take the TOEFL or the IELTS. TOEFL or IELTS 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. IELTS exam will also be accepted with a minimum of a 6.0 score.
4. The ACT Assessment and the SAT are designed to assess high school students' general educational development and their ability to complete college-level work. The tests cover four skill areas: English, mathematics, reading and science.
 - The minimum ACT composite test score is 18
 - The minimum CEEB-SAT test score is 860
5. The Texas Success Initiative (TSI) requires students to be assessed in reading, writing and math skills prior to enrolling in college, and to be advised on course placement based on the results of that assessment. The approved TSI testing instruments are as follows: THEA, ACCUPLACER, ASSET, AND COMPASS.
6. 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.
7. English translation and evaluation of educational records from Foreign Credential Services of America. In addition to the official transcripts required for admission, certified English translation must be included to allow for accurate interpretations.

Foreign Credential Services of America (FCSA)

1910 Justin Lane, Austin, TX 78757-2411 (USA)
 Phone: (512) 459-8428; Fax: (512) 459-4565
 Web: www.fcsa.biz
 E-mail: info@fcsa.biz

8. Copies of passport and any U.S. immigration documents that you may have
9. Purchase of Mandatory Medical Insurance from the University. As required by Regents' Rule 50402, students holding nonimmigrant visas are required to maintain approved comprehensive health insurance or

coverage while enrolled. 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. Deductible has to be \$500 or less. 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.

UTPA Testing Services: to register for an exam go to www.utpa.edu/step and select *Register Here.*

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 LEAC 156, telephone: (956) 665-2922, web: www.utpa.edu/oias.

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

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 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 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 Office of International Admissions and Services 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 Office of International Admissions and Services at least 30 days but no more than 60 days before the expiration of the student's stay. Extensions are granted under limited conditions.

Full-time Enrollment: A non-immigrant student must be a full-time student during the fall and spring semesters unless otherwise authorized by OIAS. Please note that enrollment restrictions differ for new students with a summer program start date. You must complete (not just register) a full course load each main semester in order to maintain your status. Undergraduate students must complete at least 12 credit hours and graduate students must complete 9 credit hours during the fall and spring semesters. Undergraduate and graduate students are eligible for one online course a semester. Violation of these federal requirements requires the termination of your immigration status.

Graduate Non-degree Seeking Students

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

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

require additional documentation.

Reservation of Work by Undergraduates for Graduate Credit

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

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

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

FISCAL POLICIES

General Information

The cost of attending The University of Texas-Pan American is relatively low — approximately \$2,586.35 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 pg. 40 of this catalog.)

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 pg. 33.)

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 available at www.assist.utpa.edu 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, notice of the specific amount required to be set aside will be included with the student's tuition bill. (Texas Education Code, 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 residency 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 Texas for tuition purposes is an individual or dependent who has physically resided (or whose parent has physically resided) in Texas for a period of 12 continuous months prior to enrollment, or is an individual who graduated from a Texas high school and has maintained a residence continuously in Texas for at least three years prior to the date of graduation and one year prior to enrollment. Individuals seeking to establish resident status under the second definition, and who are not citizens or permanent residents, must provide an affidavit stating that the individual will file an application to become a permanent resident at the earliest opportunity of eligibility.

Students are required to complete the Core Residency Questionnaire as part of the application process. Residency for

tuition purposes will be based on this questionnaire and other information/documents submitted by the student.

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

A foreign student is 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 student may qualify for resident tuition rates and other charges while continuing to be classified as a nonresident or a foreign student under the following exceptions:

- Students who receive academic competitive scholarships
- Teaching or research assistants
- Faculty employment
- Special types of visas
- Military
- Additional information on residency, reclassification, tuition exceptions and waivers is available at:

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

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, 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, 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 a student 10 or more years before the date the student begins the new degree program under the Academic Fresh Start Program.
- 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), technical and 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 UT Pan American.
- Semester credit hours earned at a private or out-of-state institution.
- Hours not eligible for formula funding.

For questions about tuition and fees under this policy, contact the Registration Accounting Office at (956) 665-2713 or 665-7824.

Students with academic questions are encouraged to contact a student development specialist in the University Academic and Advising Center at (956) 665-7121.

Three-Peat Rule

The Texas Legislature 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, Section 54.014), in addition to resident tuition, UTPA charges a Three-Peat fee of \$150 per credit hour fee for "three-peat" courses.

Per THECB Rule 13.106, the semester hours counted toward the three-peat calculation include all hours attempted by the student except:

- Remedial and development courses (18 hour limit)
- Courses dropped prior to the official census date for

the semester.

- Dissertation, thesis, seminar, independent study and special topics courses.
- Courses that involve different or more advanced content each time they are taken, including individual music lessons, Workforce Education Courses, Manual Special Topics courses (when the topic changes), theater practicum, music performance, ensembles, certain physical education and kinesiology courses, and studio art.
- Continuing education courses that must be repeated to retain professional certification.
- Courses taken at institutions other than UTPA.

For questions about tuition and fees under this policy, contact the Registration Accounting Office at (956) 665-2713 or 665-7824.

Students with academic questions are encouraged to contact the Advisement Center at (956) 665-2529 or the University Academic Advising Center at (956) 665-7121.

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 and permitted by state law (Texas Education Code, Section 54.014), be assessed 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 dropped prior to the official census date for the semester.
- Courses taken at institutions other than UTPA.

For questions about tuition and fees under this policy, contact the Registration Accounting Office at (956) 665-2713 or 665-7824.

Students with academic questions are encouraged to contact the Advisement Center at (956) 665-2529.

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 regent 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 set the specific fee amounts and make the determination to increase fees. Texas Education Code Sections 54.504 and 55.16 authorize the governing board to set and collect fees and charges.

Shown in the Fee Tables on pgs. 36-37 are the required tuition and fees charged each semester:

- **Tuition:** 2013-2014 is \$50 per semester credit hour for resident undergraduate students and \$401 per semester credit hour for all nonresident undergraduate students and in 2014-2015 is \$50 and \$401, respectively.
- **Tuition Designated Charge:** 2013-2014 is \$123.65 per semester credit hour, with a maximum of \$1,731.10 per semester, for all undergraduate students.
- **Student Service Fee:** Supports student activities such as intramural and intercollegiate athletics, the campus newspaper, student accident insurance, University Program Board, drama, dance group, Student Government Association, University Center and other student services as determined by the Board of Regents. At the time of the printing of this catalog, the fee is charged at \$14 per semester credit hour up to a maximum of \$250 per regular semester or \$125 per summer session.
- **Student Union Fee:** \$30 per student per regular semester and \$15 per student per summer session will be assessed to 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 regular semester/\$35 summer session.
- **Registration Fee:** \$10 per semester is charged to defray the cost of providing ASSIST services for registration.
- **Library Technology Fee:** \$3.25 per semester credit hour is charged to enhance student access to library information via technology
- **Medical Service Fee:** \$27.35 per regular semester or \$13.67 per summer session is charged to fund Student Health Services.
- **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.

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, chemicals and costs associated with replacement of equipment to students enrolled in specific chemistry courses.
- **Clinical Lab Science Course Fee:** \$20-\$50 per course. This fee is assessed to defray the costs of consumable supplies, media, diagnostic reagents 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.
- **College of HS&HS Student Insurance Fee:** Actual cost of insurance assessed to cover liability insurance cost for students in clinical practices.
- **Communication Course Fee:** \$40 for television, photography and media publishing courses, \$20 for writing courses, and \$5 for all other courses. This fee is assessed to defray the cost of supplies, materials, student teaching assistants and the cost associated with the replacement of equipment, software, and instructional support for the courses.
- **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 dietetics courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- **Distance Education Fee:** \$25 per SCH will be assessed to students enrolled in interactive video/online courses. \$40 per SCH will be assessed to students enrolled in telecampus courses. Students enrolled in these courses may request fee waivers if special circumstances preclude them from using UTPA facilities, activities and/or student services on which a fee is based.
- **Engineering Course Fee:** \$5 per semester credit hour for lower undergraduate courses, \$13 per semester credit hour for upper-level undergraduate courses and \$18 per semester credit hour for graduate courses. This fee is assessed to defray the costs associated with teaching including equipment, supplies, software, maintenance of equipment, personal protective equipment, and lab assistant salary support.
- **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 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:** \$50 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.
- **Practicum Course Fee-Dietetics:** \$20 per course is assessed to defray costs associated with academics practicum, coordinator visits to food service, clinical, and community nutrition sites as mandated by accreditation standards.
- **Physics and Geology Course Fee:** \$20 per course is assessed to defray cost of purchase and maintenance of lab equipment, to provide one field trip per year for each lab course sequence, to introduce use of technology to teach labs, and to provide lab tutorial services.
- **Rehabilitation Course Fee:** \$10 per course is assessed to defray the cost of supplies, chemicals and costs associated with replacement of equipment.
- **Rehabilitation Field Experience Fee:** \$8 per course is assessed to defray the cost of the Field Experience Program.

- **Social Work Field Experience Fee:** \$12.50 per course is assessed to defray the cost of faculty travel to observe student's progress.
- **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 are as follows:

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:** \$150 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 apply online at www.assist.utpa.edu. Students already receiving some form of financial aid, including scholarships, are not eligible.

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

Option A: Full payment on specified due date.

Option B: One-fourth payment on specified due date.

- One-fourth payment on the first business day of the month after the fifth class week.
- One-fourth payment on the first business day of the month after the tenth class week.
- The final one-fourth payment on the first business day of the month before the last class day.

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

Students electing to pay in accordance with Option B must personally sign a promissory note. A 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 second and any subsequent installment must be made

before the class week indicated above. Late installments will be accepted during the first three class days of the class week indicated above, but a 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:

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

Other Fees and Deposits

- Auditing Fees:** \$20 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 pg. 87](#).
- Catalog:** The first University Catalog is provided free to students as long as supplies are available. The catalog is also available online.
- Cooperative Pharmacy Program Application Fee:** \$60 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.
- Diploma Replacement Fee:** \$20 will be charged to students who request the replacement of a diploma for duplication costs.
- Emergency Loan Processing Fee Origination Fee:** \$20 An origination fee of 1% of the amount of the loan. This fee is a non-refundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See [pg. 50](#) for more on Emergency Loans.)
- Emergency Loan Late Payment Fee:** To defray the cost of administering and collecting of the Emergency Loan and will help fund the loan's revolving fund

Loan Amount	Fee
Less than \$ 500.00	\$ 10 per Month
\$500.01 - \$ 1,000.00	\$ 20 per Month

More than \$ 1,000.00	\$ 30 per Month
Maximum Charge	\$90

- 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, and may be waived if proof of adequate insurance is provided, as required by Regents' Rule 50402.
- 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:** \$50 per semester is assessed to defray the cost of providing services to F-1, J-1 and F-3 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, replacement cost 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 \$75 one-time non-refundable fee will be charged to defray the costs associated with new student orientation, pre-registration and other activities. Students must pay the fee prior to attending their orientation.
- **Parking Permit:** See Vehicle Registration and Operation Permit on pg. 35.
- **Psychology Graduate Program Fee:** \$ 75 per semester for graduate students enrolled in Clinical Psychology or Experimental Psychology Majors. This fee is assessed to defray costs associated with administering standard practices, professional level psychological tests, program related activities, expenses used to support student research, and support for travel costs for students presenting their own research at professional conferences. Funds would be used to support graduate student employees for the Psychology Graduate Office and Behavioral Animal Lab.
- **Professional MBA Program Fee:** 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 pg. 87.
- **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 – Max \$30 late payment fee. (For more information on short-term loans, see pg. 50.)
- **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.
- **Thesis Binding Fee:** Actual cost.
- **Thesis Microfilming Fee:** Actual cost. 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.
- **Tuition Installment Incidental Charge:** See Installment Payments on pg. 33.
- **University Testing Services:** Fees may be charged for tests to defray the cost of administering and scoring academic tests. Accuplacer Test Fee, \$45; ACT Residual Test, \$60; CLEP Service Fee, \$20; Correspondence Exam, \$30; Institutional TOEFL, 50; The Higher Education Assessment of THEA-Quick Test (formerly Q-TASP), \$15; PSB Health Occupations Aptitude, \$35; Compass Test – College Placement Test, \$35; Substitute Teaching Certificate Training Course, \$ 65; Texas Success Initiative (TSI) Assessment, \$45; and Computer Assisted Placement, \$10. Please inquire at the University Testing Center, 1407 East Freddy Gonzalez Drive, Edinburg, TX 78539. Telephone (956) 665-7584 or 665-7585 or e-mail: testing@utpa.edu.
- **Vehicle Registration and Operation Permit (Parking Permit):** All students, 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 \$52 for upperclassman and \$45 for freshman if paid during the fall semester. There are no refunds after the 12th class day (fourth class day in the summer). UT Pan American enforces all Texas Vehicle inspection codes (Texas Education Code, Sec. 51.207). All vehicles that park on the campus premises must have current inspection stickers and a current student-parking permit properly displayed. Parking and Traffic Rules and Regulations are available at the University Police Department or online at <http://utpa.edu/police>. (Note: All disabled veterans and Congressional Medal of Honor recipients are further exempt from the payment of all parking fees on campus. A current University parking permit and the appropriate license plate or placard or hangtag from the Texas Department of Transportation or disabled permit from the County Tax Assessor Collector must be displayed before parking in specially designated disabled parking areas on the campus. Please visit or call the UTPA Police Department for more information).

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 145, except for the Library Fees and ID Card Replacement Fee as noted above. Students who are unsure where to pay fees or what fees they owe may call the Office of Payments and Collections at (956) 665-2715 for more information. For citation fees or fines, call the Parking Services Department at (956) 665-2738.

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 AND FEE TABLES 2013-2015

Fall/Spring 2013-2014 Tuition and Fee Table

Sem. Credit Hours	Residents of Texas		NON-Residents of Texas	
	Undergrad	Graduate	Undergrad	Graduate
1	369.85	403.45	728.77	757.45
2	571.35	663.55	1,289.19	1,371.55
3	772.85	923.65	1,849.61	1,985.65
4	974.35	1,183.75	2,410.03	2,599.75
5	1,175.85	1,443.85	2,970.45	3,213.85
6	1,377.35	1,703.95	3,530.87	3,827.95
7	1,578.85	1,964.05	4,091.29	4,442.05
8	1,780.35	2,224.15	4,651.71	5,056.15
9	1,981.85	2,484.25	5,212.13	5,670.25
10	2,183.35	2,744.35	5,772.55	6,284.35
11	2,384.85	3,004.45	6,332.97	6,898.45
12	2,586.35	3,264.55	6,893.39	7,512.55
13	2,787.85	3,524.65	7,453.81	8,126.65
14	2,989.35	3,784.75	8,014.23	8,740.75
15	3,066.85	3,912.25	8,445.73	9,222.25
16	3,144.35	4,039.75	8,877.23	9,703.75
17	3,221.85	4,167.25	9,308.73	10,185.25
18	3,297.35	4,292.75	9,738.23	10,664.75
19	3,360.85	4,406.25	10,155.73	11,132.25
20	3,424.35	4,519.75	10,573.23	11,599.75

Each Additional hour add:

63.50	113.50	417.50	467.50
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Summer Sessions

1	288.32	334.77	639.32	685.77
2	489.47	594.87	1191.47	1296.87
3	690.62	854.97	1743.62	1907.97
4	891.77	1115.07	2295.77	2519.07
5	1092.92	1375.17	2847.92	3130.17
6	1294.07	1635.27	3400.07	3741.27
7	1495.22	1895.37	3952.22	4352.37
8	1696.37	2155.47	4504.37	4963.47
9	1896.52	2414.57	5055.52	5573.57
10	2083.67	2660.67	5593.67	6170.67
11	2270.82	2906.77	6131.82	6767.77
12	2457.97	3152.87	6669.97	7364.87
13	2645.12	3398.97	7208.12	7961.97
14	2832.27	3645.07	7746.27	8559.07

Each Additional hour add:

63.50	113.50	414.50	464.50
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Fall/Spring 2014-2015 Tuition and Fee Table

Sem. Credit Hours	Residents of Texas		NON-Residents of Texas	
	Undergrad	Graduate	Undergrad	Graduate
1	369.85	403.45	728.77	757.45
2	571.35	663.55	1,289.19	1,371.55
3	772.85	923.65	1,849.61	1,985.65
4	974.35	1,183.75	2,410.03	2,599.75
5	1,175.85	1,443.85	2,970.45	3,213.85
6	1,377.35	1,703.95	3,530.87	3,827.95
7	1,578.85	1,964.05	4,091.29	4,442.05
8	1,780.35	2,224.15	4,651.71	5,056.15
9	1,981.85	2,484.25	5,212.13	5,670.25
10	2,183.35	2,744.35	5,772.55	6,284.35
11	2,384.85	3,004.45	6,332.97	6,898.45
12	2,586.35	3,264.55	6,893.39	7,512.55
13	2,787.85	3,524.65	7,453.81	8,126.65
14	2,989.35	3,784.75	8,014.23	8,740.75
15	3,066.85	3,912.25	8,445.73	9,222.25
16	3,144.35	4,039.75	8,877.23	9,703.75
17	3,221.85	4,167.25	9,308.73	10,185.25
18	3,297.35	4,292.75	9,738.23	10,664.75
19	3,360.85	4,406.25	10,155.73	11,132.25
20	3,424.35	4,519.75	10,573.23	11,599.75

Each Additional hour add:

63.50	113.50	417.50	467.50
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Summer Sessions

1	288.32	334.77	639.32	685.77
2	489.47	594.87	1191.47	1296.87
3	690.62	854.97	1743.62	1907.97
4	891.77	1115.07	2295.77	2519.07
5	1092.92	1375.17	2847.92	3130.17
6	1294.07	1635.27	3400.07	3741.27
7	1495.22	1895.37	3952.22	4352.37
8	1696.37	2155.47	4504.37	4963.47
9	1896.52	2414.57	5055.52	5573.57
10	2083.67	2660.67	5593.67	6170.67
11	2270.82	2906.77	6131.82	6767.77
12	2457.97	3152.87	6669.97	7364.87
13	2645.12	3398.97	7208.12	7961.97
14	2832.27	3645.07	7746.27	8559.07

Each Additional hour add:

63.50	113.50	414.50	464.50
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TUITION & FEE DISCLOSURE

Charge	Undergraduate		Graduate	Comments
	12 SCH	15 SCH	9 SCH	
Resident Tuition	600.00	750.00	900.00	\$50/SCH-UG, \$100SCH-Grad.
Non-Resident Tuition	4,848.00	6,060.00	4,086.00	\$401/SCH-UG, \$401/SCH-Grad.
Plus:				
Designated Tuition	1,488.00	1,736.00	1,193.40	\$123.65/SCH-UG, \$1,731.10 max-UG*** \$132.60/SCH-GR, \$1,856.40 max-GR
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 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	39.00	48.75	29.25	\$3.25/SCH
Medical Service Fee	27.35	27.35	27.35	\$27.35 per semester
Student Union Fee	30.00	30.00	30.00	\$30 per semester
Recreational Fee	75.00	75.00	75.00	\$75 per semester
Undergraduate Advisement Fee	25.00	25.00	-	\$25 per semester (Undergraduate students only)
Subtotal-Required Fees	1,986.35	2,316.85	1,584.25	
Average Incidental Fees				
Total Tuition & Fees (Texas Resident)	\$2,586.35	\$3,066.85	\$2,484.25	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	\$6,834.35	\$8,376.85	\$5,670.25	Total for Non-Resident

SUMMER TUITION & FEE DISCLOSURE

Charge	Undergraduate		Graduate	Comments
	6 SCH	9 SCH	6 SCH	
Resident Tuition	300.00	450.00	600.00	\$50/SCH-UG, \$100SCH-Grad.
Non-Resident Tuition	2,406.00	3,609.00	2,706.00	\$363/SCH-UG, \$413/SCH-Grad.
Plus:				
Designated Tuition	741.90	1,112.85	795.60	\$115.39/SCH-UG, \$1,615.46 max-UG*** \$120.09/SCH-GR, \$1,681.26 max-GR
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	19.50	29.25	19.50	\$3.25/SCH
Medical Service Fee	13.67	13.67	13.67	\$13.67 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	994.07	1,446.52	1,035.27	
Average Incidental Fees				
Total Tuition & Fees (Texas Resident)	\$1,294.07	\$1,896.52	\$1,635.27	Total for Texas Resident
Total Tuition & Fees (Non-Resident)	\$3,400.07	\$5,055.52	\$3,741.27	Total for Non-Resident

* Texas Education Code, 54.504 - Incidental Fees and 55.16 Board Responsibility authorizes the governing board to fix and collect fees and charges. The averages are not given for college and course related fees (laboratory, incidental, supplemental/individual fees) since charges vary according to academic program and courses; actual fees are published in the institutional catalog and/or other publications. A summary description of these fees and the optional student fees may be found in UTPA Catalog. Check out the online version 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 University administration and UT System Board of Regents determine specific fee amounts and make the decision to increase fees.

**House Bill 3015 authorizes the governing boards of institutions of higher education to charge any student Designated Tuition in any amount necessary for the effective operation of the institution effective Sept. 1, 2003. These amounts are approximate as additional charges for course or program related fees may be incurred.

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 purposes to a first baccalaureate degree received from at 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 courses exclusively by examination. 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, in which event the amount of tuition to be rebated is equal to the 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 this catalog is considered an 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's registrar's office and must keep the institution notified of their mailing 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 and a last date of academically related activity cannot be established, the institution must consider the midpoint of the semester as the official date of withdrawal.

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, 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 Financial Aid Policy When A Student Receives No Passing Grades

If a student receiving federal financial aid who began attendance and has not officially withdrawn fails to earn a passing grade in at least one course during the semester, UTPA will assume, for Federal Title IV purposes, that the student has unofficially withdrawn, unless UTPA can document that the student completed the semester. Federal regulations require the school to determine if the student earned the failing grades or if the student dropped out of school. If UTPA is unable to determine that the student completed the semester, then it must assume that the student withdrew unofficially and must apply the Return of Title IV Funds Policy. The consequence of applying the Return of Title IV Funds Policy is that some financial aid funds may have to be returned to the federal aid accounts, causing the student to owe a balance to the school or to the federal government. The balance must be paid within 45 days or the student's account will be reported to the U.S. Department of Education for collections. The student will be notified of the responsibility to repay unearned funds to the appropriate program and/or to UTPA.

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 financial aid funds, makes UT Pan American an outstanding educational value.

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) 665-2501
Web: www.utpa.edu/finaid
<http://askrio.utpa.edu>

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

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

Federal Student Aid Information Center

<https://studentaid.ed.gov/contact>
1-800-4-FED-AID (1-800-433-3243)
Hours: 8 a.m.- 11:00 pm (Eastern Time) Monday-Friday

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

Application Process

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

In order to qualify for federal financial assistance, an applicant

must meet the following criteria:

1. Be a U.S. citizen or eligible non-citizen.
2. Be registered with Selective Service unless exempt from Selective Service registration in accordance with Tex. Educ. Code 51.9095.
3. Have a high school diploma or its equivalent.
4. Have signed a statement of educational purpose certifying that any federal aid received will be used for educational purposes.
5. Be enrolled as a regular student working toward a degree in an eligible program.
6. Is not in default on any federal loan and does not owe a refund on any federal grant program.
7. Demonstrates financial need, except when applying for funds from a program that does not require proof of financial need.
8. Be in satisfactory academic standing and making Satisfactory Academic Progress (as defined by the Satisfactory Academic Progress Policy (described below) at the University.
9. Have completed a financial aid application and all required documentation is on file by the appropriate deadline.

How to Apply for Financial Aid

- File your FAFSA over the Internet at www.fafsa.gov and request a PIN at www.pin.ed.gov. (This is your electronic signature for FAFSA on the web).
- Visit the UTPA Financial Aid Express Lab for one-on-one electronic FAFSA submittal assistance.
- All required documents must be submitted before any aid can be awarded. Some applications are selected for verification of information submitted on the application. Additional Information on the Federal Verification Procedure

As stated above, some applicants are selected 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 a tax transcript of 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 must submit parental information as requested in addition to their own information. Students will be asked to submit the information to the Office of Student Financial Services within two weeks. The financial aid application is considered incomplete until verification is completed. 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 e-mail.

The UTPA School Code for FAFSA is 003599.

Application Deadlines

The University of Texas Pan American's priority deadline is March 15th. This is the same as the state financial aid priority deadline. Students applying by the priority deadline have the greatest chance of qualifying and receiving the widest option of available funds.

To ensure processing before payment due date, the recommended dates for submission of the FAFSA are as follows:

Fall awards: March 15
Spring awards: Sept. 15
Summer awards: Feb. 15

Final deadline to apply and receive financial aid is June 30 of each 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 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 alternate 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 benefits include:

- You receive an award notification prior to the payment of tuition and fees.
- Any necessary corrections 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 approximately 10 days prior to the first class day.
2. Stafford Loan funds will be credited to the student's account approximately 10 days prior to the first class day for students who have a completed master promissory note and have completed online loan counseling. 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 cash disbursement checks: Any credits remaining in the student's account after all tuition/fees and all educational expenses have been paid will be disbursed the week prior to the first class day. All funds are sent directly to the student's bank account or mailed

to the student's mailing/billing address on file with the Office of the Registrar. The fastest way to receive cash disbursements is via direct deposit in the student's bank account. Students that wish to have their disbursements sent directly to their bank account can set up Direct Deposit at <http://assist.utpa.edu>. Please refer to the Direct Deposit Student guide located in the log in page for ASSIST website for detailed instructions on how to set up Direct Deposit.

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.

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.

Satisfactory Academic Progress Policy

The Office of Student Financial Services evaluates SAP (Satisfactory Academic Progress) after the completion of each semester once grades are posted. There are three components of SAP: a qualitative standard (i.e., grade point average), pace of number of credits attempted and earned for each year of study, and a maximum time frame (MTF) to complete the degree or program. All semesters of enrollment, including summer, must be considered in the determination of SAP. SAP standards, including grade point average, pace and maximum time frame, begin anew for students seeking a graduate or professional degree after completing an undergraduate degree.

Qualitative or Grade Point Average (GPA) 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 — institutional GPA of 1.70
- Student with 30 to 59 earned credits — institutional GPA of 1.80
- Students with 60 to 89 earned credits — institutional GPA of 2.00
- Students with 90 or greater earned credits — institutional 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 incomplete (I) grades are resolved. Transfer grades that are accepted by the University are not

counted in the determination of GPA because they are not part of the institutional or native GPA. However, the credits from all attempts accepted by UTPA are counted in the calculation of pace and the maximum time frame requirement because transfer credits will be applied to meet prerequisites and course requirements for a student's UTPA degree. 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 pace and the maximum time frame requirement. Remedial courses are not counted in the calculation of GPA, pace or the maximum time frame requirement. Audited courses do not count toward the GPA, pace or maximum time frame requirements. Credit is not granted for audited courses.

Pace (Progression Requirements)

The student must be progressing toward graduation requirements by completing the courses for which he or she enrolls each semester. This is referred to as "pace." 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, CR, F, W, WP, WF, IP, DR, DP, DF, 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, P, S, CR or P.

Maximum Time Frame (MTF) 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 MTF, include all courses with grades of A, B, C, D, P, S, F, W, WP, WF, IP, CR, DR, DF, DP, DX, NC, I or courses for which grades have not yet been assigned. Transfer credits, AP credits, or CLEP credits accepted for the student's academic degree or program are also counted when measuring the MTF to complete the degree or program.

Warning Period

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

Financial Aid Suspension

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

Appeals for Financial Aid Probation Period

A student who is denied aid because of a failure to meet satisfactory progress standards after the warning semester may appeal this determination to the Satisfactory Academic Progress Appeals Committee of the Office of Student Financial Services by completing a Student Appeal Form by published deadlines. An appeal must be based on significant mitigating circumstances, circumstances that seriously affected academic performance. Examples of possible mitigating circumstances are serious illness, severe injury, death of a family member and other similar situations. The appeal must include an explanation of why the student failed to meet SAP standards, and what has changed that will now allow the student to regain satisfactory SAP status. Appeals can only be approved if it appears that the student can regain satisfactory SAP status after the end of the following semester of enrollment, or if the student can regain satisfactory SAP status by following an academic plan that will lead to timely completion of the degree program.

The Appeals Committee of the Office of Student Financial Services will review the appeal within ten business days of receiving a completed appeal form and required documentation. Decisions are made after a careful evaluation of the student's unique circumstances, Federal Title IV regulations, and UTPA guidelines. The student will be notified of the committee's decision via mail. During this time, the student is responsible for any tuition and fees (including late fees) that are charged to their account.

The appeals committee is composed of professional staff from the financial aid office that function in a student advisory or administrative capacity and are knowledgeable of federal, state, and institutional financial aid regulations and policies. The committee also has a member from the Office of Counseling and Psychological Services and a member from the

Office of Disability Services. The committee must have quorum of at least four members in order to render a final decision on any student appeal. Appeal decisions are final.

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

When federal Title IV grants 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

For students enrolling in Distance Learning who list UTPA as their Home institution, financial aid funds will be disbursed to after the census date. Students are responsible for contacting 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 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 be participating in a study abroad program that has been pre-approved as a financial aid eligible Study Abroad Program. This is determined by the agreements that are set up by the Office of International Programs for each specific program. Students should verify with both the Office of International Programs and the Office of Student Financial Services to determine if the program they are interested in is an eligible program for financial aid purposes.

To be considered for Title IV funds, the study abroad applicant is expected to meet all financial aid application priority

deadlines, to adhere to other financial aid deadlines, to meet all the eligibility requirements for Title IV awards, be making Satisfactory Academic Progress.

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. Entrance 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.

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)

Financial aid funds will be disbursed the week prior to the beginning of the program for the respective semester or the applicable UTPA disbursement date for that semester. As a result, students will need to contact the Office of International Programs to make payment arrangements with their respective study abroad program if payments are due before that date.

Federal 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 financial aid funds, if applicable. Please refer to section on Return of Title IV in the catalog for additional information.

The Office of International Programs can provide additional information on eligible study abroad programs. For additional information, call (956) 665-3572.

Types of Financial Assistance

Grants

Federal Pell Grant

This grant is available to qualifying students who complete a Free Application for Federal Student Aid (FAFSA), which is online at www.fafsa.gov. 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.

TEXAS Grant

The TEXAS (Towards EXcellence, Access and Success) 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 4600.
 - 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. (See additional academic requirements below for students graduating from high school after May 1, 2013.)
 - 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.
- AND**
- Enroll in any public university in Texas no more than 12 months after receiving their associate's degree.

Initial eligibility for a person graduating from high school after May 1, 2013 must include meeting the following academic requirements:

Be a graduate of a public or accredited private high school in this state who completed the Recommended High School program or its equivalent and have accomplished any two or more of the following:

- graduation under the Advanced High School Program, successful completion of the course requirements of the International Baccalaureate Diploma Program, or earning of the equivalent of at least 12 semester credit hours of college credit in high school;
- Satisfaction of the Texas Success Initiative (TSI) college readiness benchmarks or be TSI exempt;
- Graduation in the top one-third of the person's high school graduating class, or graduation from high school with a grade point average of at least 3.0 on a four-point scale or the equivalent; or
- Completion for high school credit of at least one advanced mathematics course following the successful completion of an Algebra II course
- If sufficient money is available, meet the academic eligibility criteria for students that graduated from high school before May 1, 2013.

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.

Receipt of a TEXAS Grant is not guaranteed and is dependent on yearly allocations from the state.

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

www.utpa.edu/finaid/.

State Exemptions

The Texas Education Coordinating Board administers various tuition assistance programs including programs for teachers and vocational nursing students. Further information about these programs may be obtained by visiting the Student Financial Services website at www.utpa.edu/finaid or visiting the Texas Higher Education Coordinating Board website at www.collegeforalltexas.com.

The legislature of the state of Texas enacted legislation that sets conditions for the continued receipt of state exemptions and waivers. The new standards go into effect beginning with the fall 2014 semester. After initially qualifying for the waiver or exemption, a student must meet certain renewals requirements to receive the waiver in all subsequent semesters. A graduate or undergraduate student must maintain the institution's grade point average (GPA) requirement for making satisfactory academic progress, in accordance with the institution's policy regarding eligibility for financial aid. For graduate students the GPA requirement is a 3.0, and for undergraduates it is a 2.0. Undergraduate students, to remain eligible, also may not have excess credit hours greater than 30 hours beyond what is required for a bachelor's degree, unless the institution determines there is good cause. In calculating excess credit hours, the following are not included: hours earned exclusively by examination; dual credit hours; and developmental coursework hours that an institution required the person to take under Success Initiative. If a student fails to meet the requirements for continued eligibility, he or she is not eligible for the exemption for the following semester but can become re-eligible if the student meets the eligibility criteria above again.

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 of tuition and required fees for persons who were under the conservatorship of the Department of Protective and Regulatory Services on the day preceding their 18th birthday; on or after the day of the student's 14th 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 25th birthday.

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 Education 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, whichever comes first.

Exemption for Highest Ranking High School Graduate (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 the student was the highest-ranking student of his/her high school.

Senior Citizen Exemption

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

Exemption for Texas Veterans (Hazlewood Act)

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

for the Hazlewood Act, the applicant must be a veteran who at the time of entry into the U.S. armed forces:

- Is a Texas resident, has designated Texas as home of record, or entered the service in Texas.
- Have served at least 181 days of active military duty, as indicated as “net active service” (the sum of 12(c) and 12(d) on the DD-214) and received an honorable discharge or separation or a general discharge under honorable conditions.
- Have no federal veterans education benefits or have federal education benefits dedicated to the payment of tuition and fees only (such as Chapter 33 or 31; Pell and SEOG are not relevant) for term or semester enrolled that do not exceed the value of Hazlewood benefits.
- Are not in default on a student loan made or guaranteed by the state of Texas.
- Enroll in classes for which the college receives tax support (i.e., a course that does depend solely on student tuition and fees to cover its costs), unless the college’s governing board has ruled to let veterans receive the benefit while taking non-funded courses.
- Resides in Texas during the semester or term for which the exemption is claimed.

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 board and lodging, or clothing) and other required charges that would otherwise be paid to attend The University of Texas-Pan American.

Hazlewood-Legacy Program (Transfer of Hazlewood Benefits)

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

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

If the child to whom hours have been delegated fails to use all of the assigned hours, a veteran may re-assign the unused hours that are available to another dependent child. Veteran’s spouses are not eligible to receive a transfer of unused hours.

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

for board and lodging, or clothing) and other required charges that would otherwise be paid to attend The University of Texas-Pan American.

Hazlewood Exemption for Eligible Dependents (Children and Spouses):

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

- Are Texas residents, designated Texas as Home of Record or entered the service in Texas
- Have a parent or is the spouse of a veteran of the U. S. armed forces, Texas National Guard, or Texas Air National Guard who died as a result of service-related injuries or illness, is missing in action, or became totally disabled for purposes of employability as a result of service-related injury or illness.
- Have no federal veterans education benefits or have federal veterans education benefits dedicated to the payment of tuition and fees only (such as Chapter 33 or 31; Pell and SEOG Grants are not relevant) for the term or semester enrolled that do not exceed the value of Hazlewood benefits.
- Are residents of Texas as of the term or semester in which they enroll.
- Are 25 years or younger on the first day of the semester or term for which the exemption is claimed (unless granted an extension due to a qualifying illness or debilitating condition) if receiving the exemption for the first time beginning Fall 2011. This does not apply to children who received the exemption prior to Fall 2011.
- Provide proof from Department of Defense or from the VA regarding veteran parent’s death or disability related to service.

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

Tuition and Fee Exemption for Members of State Military Forces

Texas Education Code Section 54.2155 provides an exemption for individuals certified by the adjunct 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.

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

The purpose of this exemption is to provide an education benefit to the children of persons listed as Missing in Action or Prisoners of War by the U.S. Department of Defense.

Eligibility requirements:

- Are Texas residents.
- Are 21 or younger, or 25 or younger and receiving most of his/her support from a parent.
- Have documentation from the Department of Defense that a parent, who is classified as a Texas resident, is MIA/POW.
- Enroll in classes for which the college receives tax support (i.e., a course that does not depend solely on student tuition and fees to cover its costs).

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

Exemption for the Surviving Spouse and Minor Children of Certain Deceased Public Servants (Employees)

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 employed by a political subdivision of Texas as a firefighter, or are currently and have been for at least one year an active member of an organized volunteer fire department in Texas who holds appropriate levels of certification; and enrolled in courses offered as a part of fire science curriculum. They are exempted from tuition and laboratory fees.

Exemption Program for Children of Professional Nursing Program Faculty and Staff

To provide an exemption of tuition to eligible students to encourage their parents to continue employment as professional nurse faculty or staff members in the state of Texas.

Student must:

- Be 25 years or younger.
- Be a Texas resident.
- Have not previously received a baccalaureate degree.
- Be enrolled at an institution that offers an undergraduate or graduate program of professional nursing.
- Be the child of an individual who:
 - At the beginning of the semester or other academic term for which an exemption is sought: (1) holds a master's or doctoral degree in nursing, and is employed full-time by an undergraduate or graduate professional nursing program offered by the institution that the child is attending and is employed as a member of the faculty or staff with duties that include teaching, performing research, serving as an administrator, or performing other professional services other than serving as a teaching assistant, or (2) holds a baccalaureate degree in nursing and is employed by a professional nursing program offered by the institution as a full-time teaching assistant, or
 - During all or part of the semester or other academic term for which an exemption is sought: (1) holds a master's or doctoral degree in nursing, and has contracted with an undergraduate or graduate professional nursing program in this state to serve as a full-time member of its faculty or staff with duties that include teaching, performing research, serving as an administrator, or performing other professional services other than serving as a teaching assistant, or (2)

holds a baccalaureate degree in nursing and has contracted with a professional nursing program offered by the institution to serve as a full-time teaching assistant.

- Register for the Selective Service or be exempt from this requirement.
- Have not previously received an exemption under this section for 10 semesters or summer sessions.

Students are exempted from tuition, which may be prorated if parent is not full-time.

Exemption Program for Clinical 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:

The University of Texas-Pan American
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:

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

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

Fifth-Year Accounting Student Scholarship Program

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

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

In order to apply, students must:

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

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

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, telephone (956) 665-2922.

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, telephone (956) 665-2922.

For additional information on any of these programs, contact:

The University of Texas-Pan American
Student Financial Services
Student Services Building, First Floor
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2501
askrio.utpa.edu
Web: www.utpa.edu/finaid

Also visit the Texas Higher Education Coordinating Board website at www.collegeforalltexas.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 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:

- Be a Texas resident.
- Have graduated in the 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; or
 - 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 a public school in this state in that teaching field; or
- 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.

Please note: Due to state funding shortfalls, currently no new participants will be accepted into the program and funding for eligible teachers who previously received loan repayment awards will be very limited.

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 processing fee for each semester the loan is used. Students may borrow up to the amount of tuition and applicable fees. Applications and information about the emergency loan program are available at the Student Loan Collections Office, Room 214, 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. To be considered for scholarships at UTPA, students must complete the UTPA Excellence and Departmental Scholarship application online at www.utpa.edu/scholarships. The scholarship process is very competitive. Students are encouraged to apply early and make sure their applications are submitted and complete by the application deadline.

Important: It is UTPA'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 Scholarship Program

If you are an entering freshman who has earned college credit through Advanced Placement (AP) examinations and/or the Concurrent Enrollment (CE) program at UT Pan American or are an International Baccalaureate Diploma recipient or have graduated in the top 10% of your high school graduating class, 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 and;
- Minimum 24 ACT or 1090 SAT Composite
*Composites do not include writing portion of ACT/ SAT tests. Or
- Receive International Baccalaureate Diploma and;
- 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 and;
- 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 and;
- Minimum 22 ACT or 1020 SAT Composite
*Composites do not include writing portion of ACT/ SAT tests. Or
- Receive International Baccalaureate Diploma and;
- Minimum 22 ACT or 1020 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 and;
- Minimum of 26 ACT or 1170 SAT Composite
*Composites do not include writing portion of ACT/ SAT tests.

How to Apply

There is no formal application for the University Scholars Scholarship Program. This is a competitive scholarship that is awarded on a first-come, first-served basis. This program is dependent on availability of funds; therefore, limited slots are

available. Admission to UTPA is required, thus you are highly encouraged to complete the admission process as early as possible to ensure that you are considered for this scholarship:

- Complete and submit the UTPA Admission Application at applytexas.org.
- Submit your ACT or SAT scores to UTPA.
- 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.

If your eligibility for this scholarship is dependent upon AP credit, please have your scores sent to the UTPA Admissions and New Student Services Office as soon as possible.

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 Scholarship 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 Scholarship Office of any special instructions or billing information regarding external scholarships. All checks for these awards should be made payable to The University of Texas-Pan American and sent to:

The University of Texas Pan American
Student Financial Services, SSB 1.136
Attn: Scholarship Office
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 UTPA for graduate study.

Post Master's: Students who have earned a graduate degree and are continuing in another master's program.

Doctoral Students: Students who have been accepted to a doctoral program.

Course Information

Undergraduate classroom course information, including a list of courses to be offered each semester, syllabi, curriculum vitae of each regular instructor, and textbook information may be found in ASSIST, the online student services system. Students get to ASSIST through the MyUTPA portal. Go to my.utpa.edu and login with your userID and password. (Texas Education Code Section 51.974).

Student Learning Outcomes

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

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.

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 pg. 23 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 by the comment "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 graduate-level courses.
All 8000-9000 numbered courses are doctoral-level courses.

Grading Policies

Grading System

UT Pan American uses a four-point 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)
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)
W	Withdrawal	(not considered in calculating grade points or GPA hours)
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)
RB	Developmental Education	(not considered in calculating grade points or GPA hours)
RC	Developmental Education	(not considered in calculating grade points or GPA hours)
RD	Developmental Education	(not considered in calculating grade points or GPA hours) *This grades does not fulfill TSI requirements.
RF	Developmental Education	(not considered in calculating grade points or GPA hours)
RI	Developmental Education	(not considered in calculating grade points or GPA hours)
RNP	Developmental Education	(not considered in calculating grade points or GPA hours)

Native Grade Point Average

The cumulative grade point average (GPA) at UT Pan American is calculated on the basis of courses taken at the University and excludes transferred grades.

Calculation of Undergraduate Grade Point Average

The 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 at UTPA. The current semester grade point average is calculated using only coursework attempted within a specific semester.

The student may repeat a course at UTPA to improve his/her GPA. (For more information, see the section on Repeated Courses on pg. 54.)

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 (i.e. ENG 1301), the grade points would be calculated as follows:

4 (for grade of A) x 3 (hours) = 12 grade points

Grade points are assigned as follows:

Grade	Grade Points
A	4 pts.
B	3 pts.
C	2 pts.
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	A	3 hrs. x	4 pts. per hr.	=12
MATH	1340	B	3 hrs. x	3 pt. per hr.	=9
HIST	2313	C	3 hrs. x	2 pts. per hr.	=6
BIOL	1401	D	4 hrs. x	1 pts. per hr.	=4
KIN	1201	F	2 hrs. x	0 pts. per hr.	=0
TOTAL 15					31

Total attempted hours = 15
Total grade points = 31

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

31 ÷ 15 = 2.07

Incomplete Grades

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

- 1. Is passing the course to date.

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

The student must arrange with the instructor to finish the course within one year by completing specific requirements. These requirements must be listed on a Request for Grade of Incomplete Form signed by the instructor, student, and department chair. Incomplete grades 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 submitted a grade change for the course.

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

Credit by Examination

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

Quality of Work

While a grade of D is considered passing in a subject, the student must maintain an overall average of a C, which corresponds to a 2.0 GPA, 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, and overall requirements for a bachelor's degree are listed on pg. 62 of this catalog.

Repeated Courses

Some courses at UT 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 UT 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 at UTPA. 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.

Dean's List

After each regular (fall or spring) semester, a Dean's 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 GPA of 3.5 or better for courses taken that semester. A Dean's List is not produced during summer sessions.

Grade Reports

Student grade reports are not mailed automatically for students. Students may view their grades online in ASSIST. Students requiring a paper copy of their grades may request a transcript to be mailed to their home address.

Registration Procedures

Registration

Students must register for their courses online using ASSIST. Students needing assistance with registration may come to the Registrar's Office in the Student Services Building, Room 1.150, or request help by sending an email from their BroncMail account to registrars@utpa.edu. 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 (in ASSIST) is available to currently enrolled students and students who apply by the published admission deadline. Academic advisement is mandatory to be eligible for priority registration. Students with admission, disciplinary, financial, or TSI holds will not be permitted to register until the hold has been cleared. A schedule change period occurs at the beginning of each semester. Students who

register during the designated late registration period will be assessed additional late fees. Computers are available in the Academic Services Building for students who do not have access to a computer and the internet for registration.

Dropping/Withdrawing

If a student chooses not to attend a class or classes, s/he is responsible for officially dropping or withdrawing through the Office of the Registrar. (See the sections on withdrawal from the University and on dropping a course on pg. 55.) Students who decide not to attend and do not officially complete the drop or withdrawal process through the Office of the Registrar will be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will “automatically” be dropped from their classes if they do not attend or do not pay. (If a student has requested some form of financial assistance, payment may have been posted to his or her account.) Refer to the published Schedule of Classes for refund schedules.

Withdrawal for military service: A student who withdraws as a result of being called to active military service may choose (1) to receive a refund of tuition and fees for the semester; (2) if eligible, to be assigned an incomplete in each course; or (3) at the instructor’s discretion, to receive a final grade in courses where s/he has completed a substantial amount of coursework and has demonstrated sufficient mastery of the course material. Policies affecting students who are absent for military service, but do not withdraw are articulated in the “Military Absences” section on pg. 59.

In accordance with Texas Education Code, 51.907, undergraduate students who first entered college in the Fall 2007 semester, or later, may not drop more than a total of six courses during their undergraduate career. Courses dropped at other Texas public higher education institutions will count toward the six-course drop limit. A student may appeal a drop, if s/he 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 pgs. 96-99), 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 list 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 follow the list of required courses found in his/her DegreeWorks degree plan. (See also Degree Requirements on pgs. 65-66.)

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 a student enters this University with the expectation of subsequently transferring to another institution, he/she 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.

Students who plan to graduate from UT Pan American should consult DegreeWorks and 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 student’s advisor, department chair, and dean can 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 (12th class day in a regular semester, published in the University’s academic calendar), a student must: (1) obtain a Class Drop Form from the Office of the Registrar, (2) obtain the required signatures (international students must have the approval of the International Student Services Office, and student-athletes must have the approval of the student-athlete advisor), and (3) return the completed form to the Office of the Registrar, Student Services Building, Room 1.150 by the deadline as listed in the University’s academic calendar.

All course drops must be completed during the first 85 percent of the semester or term (refer to the University calendar in

this catalog or the Registration Bulletin for deadline dates). Students dropping a course during this time will receive a grade of DR. After the deadline, the student remains on the class roll and will receive the letter grade s/he earns.

If a student chooses not to attend a class or classes, s/he 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 at www.utpa.edu/registrar.

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 last date to drop or withdraw as listed in the University academic calendar. Withdrawals must be requested by completing the appropriate withdrawal form, and submitting it to the Office of the Registrar, Student Services Building, Room 1.150. Students who cannot come to campus may contact the Office of the Registrar at (956) 665-2201. A withdrawal form will be accepted by fax on or before the deadline to drop or withdraw. Questions about withdrawal may be addressed to registrars@utpa.edu, and to protect students' privacy we require that the email be sent from the student's BroncMail account.

A student withdrawing during the first 85% 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 s/he earns. Refer to the Registration Bulletin on the web at www.utpa.edu/registrar for refund periods.

Transfer Student

Transfer students with 30 or more hours but without the University College-approved courses, or courses deemed comparable by UT 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 into a regular semester or 10 calendar days into 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 student's permanent record. Audit fees (\$20 per course) are non-refundable and may not be appealed. Individuals who are not regularly enrolled students at the University are also eligible to audit classes subject to the regulations stated above.

Residency

Residency for tuition purposes is determined by regulations set forth by the state of Texas. Students are required to sign an oath of residency as part of the application process. Residency for tuition purposes will be based on this oath and other information submitted by the student. The requirements are outlined on pg. 29. 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) 665-2660.

Name Change

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

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

Official means of communication with students and UTPA

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

Change of Address and/or Telephone Number

If a student changes his or her address or telephone number, s/he 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 notices as a result of their failure to notify the University of their new contact information. Students whose mail is returned to the University will not receive additional communication until an address change has been submitted.

Enrollment Verification

Enrollment verification for lending agencies can be requested from the National Student Clearinghouse at www.studentclearinghouse.org, phone: (703) 742-7791, fax: (703) 742-7792. If further assistance is required, contact The Office of the Registrar in the Student Services Building, Room 1.150, or you may reach them by email at registrars@utpa.edu or by phone at 956-665-2201.

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

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 a picture identification at the Office of the Registrar, by requesting the transcript in writing from the Office of the Registrar (a transcript request form is available online at utpa.edu/registrar) or on the Web in ASSIST. Transcripts will be issued at no charge.

The term “transcript of record” is understood to refer to the recorded results of the student’s work in the classroom, and it is a comprehensive record of an individual’s total academic progress at UT Pan American. This statement will contain all the important facts pertaining to the student’s admission, academic level and academic achievements. No partial or incomplete classroom records (for example, with grades of F omitted) will be given. Students who owe debts to the University, are delinquent or in default on a student loan, or owe a repayment on a student grant overpayment will have their official transcripts withheld until the university debts are paid or satisfactory arrangements have been made to repay the student loan or student grant overpayment.

Attendance Policies

Attendance

In accordance with the policy on absences in the University’s Handbook of Operating Procedures, regular attendance in all meetings of courses for which the student is registered is expected. When a student is excessively absent (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/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, s/he must officially drop or withdraw through the Office of the Registrar by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (See the Registration Bulletin at www.utpa.edu/registrar 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 Tax Code Section 11.20.

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 will 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, scholastic events, or student development activities) are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to 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

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 consist of both credit hour and grade point average minimums for each term of enrollment.

Veterans

The Veterans Services Center certifies veterans to receive educational benefits for attendance at UT Pan American. The Veterans Services Center is located in the University Center, Room 113, phone: (956) 665-7934. Students receiving VA educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Progress and Scholastic Probation and Suspension (see pg. 60). Students receiving educational benefits must report any changes made to their schedule to the Veteran Services Center. Students who do not report changes in their schedule may be subject to repayment by the Veterans Administration.

Military Absence

Under certain circumstances, a student who is required to participate in active military service is excused from scheduled

classes or other required activities and will be allowed to complete an assignment or exam within a reasonable time after the absence. The excused absence is permitted only if the student will not miss more than 25% 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 found below. These guidelines apply to a student who withdraws from an institution of higher education to perform active military service, a member of the U.S. armed forces or the Texas National Guard, except that this section does not apply to a student who withdraws from an institution solely to perform one or more training exercises as a member of the Texas National Guard.

A. For any academic term that begins after the date a student is released from active military service, but no later than the first anniversary of that date, the institution of higher education from which the student withdrew shall admit the student, without requiring 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.
- 2. Allow the student the same academic status that the student had before the student's withdrawal, including any course credit awarded to the student by the institution.

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

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

established by the American Council on Education's Guide to the Evaluation of Educational Experiences in the Armed Services to assess potential transferability of Military Occupational Specialties.

Acceptable forms of documentation include:

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

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

Credentials (except Form DD-214) should be sent to:

The University of Texas-Pan American
Office of Admissions
1201 W. University Dr.
Edinburg, TX 78539-2999

Unlike college or high school transcripts, submission of military credentials for potential transfer credit is optional and is neither required for undergraduate admission nor subject to admission deadlines. 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. Four-, three- and two-year programs are available to interested students, male and female, graduate and undergraduate.

In March of 2007, UTPA's ROTC program are awarded 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 two- and three-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 Or a living stipend of about \$2,800 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 four years of Junior ROTC in high school may, at the discretion of the professor of military science, be given placement credit for two years 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 contracted 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. and receive transportation allowance to and from the camp, uniforms, room and board and are paid approximately \$750 for the period. 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. To learn more, visit the Department of Military Science, Lamar Building B, Room 103, or call (956) 665-3601.

Continuing Enrollment

Academic Standards for Regularly Admitted Students

Undergraduate students are expected to meet certain minimal academic standards in work completed in postsecondary 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 when his/her cumulative GPA falls 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 him/herself from academic probation (achieve a cumulative GPA higher than 2.0). The student will continue on probation if the student's current semester GPA is 2.25 or above for a fall or spring semester.

Level of GPA criteria Academic Status

GOOD STANDING	Cumulative GPA is 2.0 or above
PLACED ON ACADEMIC	Cumulative GPA has dropped below 2.0.
CONTINUED ON ACADEMIC PROBATION	Previously on Academic Probation, cumulative GPA is below 2.0 and current semester GPA is 2.25 or above.
ACADEMIC SUSPENSION	Previously on Academic Probation, cumulative GPA is below 2.0 and current semester GPA is below 2.25.
<ol style="list-style-type: none"> 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. 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 University Admissions Committee, in care of the Office of the Registrar, by the deadline stated in the notification letter and email. The petition must detail the reasons for alleging that circumstances warrant special consideration and should 	

articulate the student's plan for achieving academic success. The committee may reinstate a student who has not served the period of academic suspension 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 may not attend classes. Students will 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

In accordance with Texas Education Code, Section 51.3062, students who enter public institutions of higher education must take the Texas Success Initiative Assessment (TSI Assessment) prior to enrolling in college-level courses. The Texas Success Initiative (TSI) is a state-mandated program designed to improve student success in college. There are two components of the program: (1) an assessment to diagnose students' basic skills in reading, mathematics, and writing; and (2) developmental instruction to strengthen academic skills that need improvement.

All non-exempt students are required by law to take the TSI Assessment. It is the responsibility of the student to see that scores are sent to the University by the testing institution. TSI, in part, requires the following:

1. **Mandatory Testing and Assessment** – All students must take the TSI Assessment prior to enrolling in college-level courses at a Texas public postsecondary institution.
2. **Mandatory Orientation** – All new students to UT Pan American, 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 Assessment must be advised prior to registration each semester.
4. **Mandatory Developmental Education or Interventions** (if indicated by the TSI assessment) – The TSI Assessment concentrates 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 interventions are provided to help students overcome deficiencies identified from the assessment. Students must remain in continuous developmental education or interventions until they pass all sections of TSI.

TSI Assessment Exemption Students

In accordance with Texas Education Code, Section 51.3062, students in the following categories who enter public institutions of higher education a student may be exempt from TSI requirements.

The law allows for exemptions for 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 five 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 minimum writing subscore of a 3 and a minimum score of 2200 on the mathematics test (partial exemptions are allowed; students with STAAR EOCs should see an advisor in the University Academic Advising Center about TSI exemption).
3. A student who has graduated with an associate or baccalaureate degree from an institution of higher education in the state of Texas.
4. 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.
5. A student who has previously attended any Texas institution of higher education and has been determined to have met readiness standards by that institution.
6. A student who is serving on active duty as a member of the U.S. armed forces, 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.
7. 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 the TSI Assessment must register for developmental courses or participate in interventions in the 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.
- Students who have not passed all parts of the TSI Assessment 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.
 - Concurrent Enrollment students and international students seeking a degree are subject to the same TSI requirements as all other students.
 - 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. Students needing more information on TSI rules or their TSI status can call (956) 665-7120 or (956) 665-2319. The TSI Assessment Information is available from the University Testing Center, UTPA Community Engagement & Student Services Bldg. RM 1.101, 1407 E. Freddy Gonzalez Drive. , Edinburg, Texas. For more information, call (956) 665-7570 or e-mail 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 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 pgs. 11-12.

The College of Science and Mathematics 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 pre-medical (with a major in biology or chemistry) studies.

Minors are offered in most of the fields that offer majors. Additional minors are available in addition studies, astronomy, applied mathematics, art, ceramics, computer graphics, graphic design, art history, jewelry/metalworking, painting, sculpture, two-dimensional art, three-dimensional art, geology, biochemistry, biology, business administration, chemistry, communication, communication studies, computer information systems, computer science, computer science for engineering majors, criminal justice, dance, earth science, economics, English, entrepreneurship, environmental science, environmental studies, film studies, folklore, French, geographic information systems, global security studies, health education, history, Hispanic media studies, honors studies, human resource management, kinesiology, Latin American studies, leadership studies, legal studies, manufacturing engineering, marketing, mass communication, mathematics, mathematics with secondary certification, mechanical engineering, medical Spanish, military science, Mexican-American studies, Middle school mathematics, mathematics, music, philosophy, physical science, physics, political science, psychology, public administration, reading (for students seeking certification only), rehabilitation studies, religious studies, sociology, Spanish, statistics, theatre and women's studies.

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 pgs. 19-20.

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.

- 1. Degree, minimum hours and GPA:** 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 (BA,

BS, etc., depending on the chosen majors). For students wishing to pursue a second degree, please refer to the section titled “Additional Bachelor’s Degrees” on pg. 65. A minimum of 120 hours of work is required with a minimum institutional 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 institutional 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 teacher certification must have a minimum 2.50 GPA. Accounting and biology majors are required to have a 2.5 GPA 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 pgs. 96-99 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. Language Proficiency University Requirement: A student graduating from UTPA is required to demonstrate proficiency in a language other than English at the undergraduate level. Proficiency may be demonstrated by the following:

- Two years high school second language coursework in the same language;
- A college credit exam (AP, CLEP, International Baccalaureate);
- A placement test approved through the UT Pan American Department of Modern Languages (WebCAPE); or
- Six credit hours of college coursework in a foreign language (including dual/concurrent).

*Students whose initial postsecondary enrollment was prior to fall 2010 may demonstrate proficiency using two years of foreign language study in High School.

Students admitted with a TOEFL (or IELTS) Requirements

Students who are native speakers of languages other than English may fulfill the second language requirement with

the Test of English as a Foreign Language (TOEFL) or with the International English Language Testing System (IELTS), provided that it was an admissions requirement and the student met one of the following minimum scores:

TOEFL Paper Version	500
TOEFL Computer Version	173
TOEFL Internet Version	63
IELTS	6.0

The WebCAPE (Computer Assisted Placement Exam)

The WebCAPE Placement Exam is an examination approved by the UT Pan American Department of Modern Languages for demonstrating second language proficiency. To demonstrate proficiency for Spanish, French or German through the WebCAPE exam, the following scores must be achieved:

Language Tested	CAPE Score (Partial Waiver)	CAPE Score (Proficiency Met)
Spanish	270 (SPAN 1301/1303 waived)	345
French	260 (FREN 1321 waived)	336
German	292 (GERM 1331 waived)	383

Please note: If your second language is not listed above, contact the Department of Modern Languages.

If UTPA coursework is needed to meet the second language proficiency requirement, courses may be chosen from those listed below.

FREN	1321, 1322	
GERM	1331, 1332	
SPAN	1301, 1302	(Non-Native Speaker)
SPAN	1303, 1304	(Native Speaker)
SPAN	1387, 1388	(Honors)
PORT	1341, 1342	
COMD	1310, 1320	(Sign Language)
FORL	1391, 1392	Level I and II (.01 Chinese, .02 Turkish and .03 Arabic)

9. University Requirement: Beginning in Fall 2008, as part of UT 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 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 than 12 semester hours required of full-time students.

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 completion of their baccalaureate 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 also be used to meet either a requirement in the major or minor. 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 in the College of Education. Since degree plans for bachelor's degrees with teacher certification may differ from plans without certification, students should ensure that their admission to the

teacher education program is reported to 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 University of Texas-Pan American uses DegreeWorks for all official degree plans. Students may access their degree plan through ASSIST. Changes to a student's chosen major, minor, or concentration must be reported to the Office of the Registrar to be made official and for the DegreeWorks plan to be updated to reflect the chosen field.

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. Students will be notified that they may apply for graduation after completion of 90 semester credit hours. The application is completed in ASSIST.

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 enrollment at UTPA or those provided in a subsequent catalog. 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 2022.

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 different, 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. Deviations from the degree plan in DegreeWorks are not considered official or final until official approval is received by the Office of the Registrar and the deviation is posted in DegreeWorks.

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."

Course requirements for a bachelor's degree in a specific discipline 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 are given a degree plan in DegreeWorks immediately upon declaration of a major. Updated degree plans are generated when students declare a change to their major at the Office of the Registrar. Information on changing your major is available at www.utpa.edu/registrar.

Additional Bachelor's Degrees

Students who received their first bachelor's degree from UT Pan American or other regionally 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 GPA 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 pgs. 96-99.

Completion of a baccalaureate degree at another accredited institution will fulfill UT 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 of the student's enrollment at UTPA or those provided in a subsequent catalog. In any case, the catalog used to determine the degree requirements may not be more than seven years old.

Any deviations from the degree plan must be approved by the

department chair and the dean of the college, as per number 17 above. For purposes of graduation requirements, this catalog expires August 2022.

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)

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 student's cumulative GPA. Unsuccessful attempts to earn credit by examination are not recorded on the student's 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 policies 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) 665-2201
E-mail: registrar@utpa.edu

For additional information regarding testing, contact the: Testing Center

UTPA Community Engagement & Student Success (CESS) Bldg. RM 1.101
1407 E. Freddy Gonzalez Drive
Edinburg, TX 78539-2999
Telephone: (956) 665- 7570
E-mail: testing@utpa.edu
Website: utpa.edu/step

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

ACT Exam Scores

Minimum ACT Subject	English Score	UTPA Course
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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	Sem. Min. Score	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 1170, 1370	Computer Science (A)	3	4
CSCI 1170, 1370	Computer Science (AB)	3	7
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, 1322	French Lang or French Lit	3	6
FREN 1321, 1322, 2321	French Lang or French Lit	4	9
FREN 1321, 1322, 2321, 2322	French Lang or French Lit	5	12
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 1460	Calculus (AB)	3	4
MATH 1460, 1470	Calculus (BC)	3	8
PHYS 1401, 1402	Physics (B)	3	8
PHYS 1401, 2401	Physics (C) Mechanics	3	4
PHYS 1402, 2402	Physics (C) Electricity and Magnetism	3	4
POLS 2313 or 2314	U.S. Government	3	3
PSY 1310	Introduction to Psychology	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 or MATH 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 Admissions and New Student Services for additional information.

IB Test	Score	UTPA Course	Credit
English A1 or A2			
Standard Level	4, 5, 6, 7	ENG 1301, 2307	6
Higher Level	4, 5, 6, 7	ENG 1301, 2307	6
Extended Essay (Any Discipline)	A. B. C.	ENG 1302	3
Biology, Standard or Higher Level	4, 5, 6, 7	BIOL 1401, 1402	8
Chemistry, Standard or Higher Level	4, 5, 6, 7	CHEM 1301,1101 CHEM 1302, 1102	8
Physics,			
Standard Level	4, 5, 6, 7	PHYS 1401	4
Higher Level	4, 5, 6, 7	PHYS 1401, 1402	8
Economics, Standard Level	4, 5, 6, 7	ECON 2301	3
Economics, Higher Level	4, 5, 6, 7	ECON 2301, 2302	6
Spanish (A1, A2, or B)			
Standard Level	4, 5, 6, 7	SPAN 1301/1303, 1302/13046	
Higher Level	4, 5, 6, 7	SPAN 1301/1303, 1302/1304 2307, and 2308	12
French, A1 and A2,			
Standard Level	4, 5, 6, 7	FREN 1321 and 1322	6
Higher Level	4, 5, 6, 7	FREN 1321, 1322, 2321 and 232212	
Geography, Standard Level	4, 5, 6, 7	GEOG 2313	3
Geography, Higher Level	4, 5, 6, 7	HIST 3303	3
History,			
Standard or Higher Level			
Americas	4, 5, 6, 7	HIST 2313, HIST 2314	6
European	4, 5, 6, 7	HIST 2331, 2332	6
World	4, 5, 6, 7	HIST 3302	3
Higher Level	4, 5, 6, 7	HIST 3303	3
Information Technology,			
Standard Level	4, 5, 6, 7	CSCI 1380	3
Philosophy, Standard Level	4, 5, 6, 7	PHIL 1310 or 1320	3
Psychology, Standard Level	4, 5, 6, 7	PSY 1310	3
Anthropology,			
Standard Level	4, 5, 6, 7	ANTH 1323	3
Mathematics,			
Standard Level	4	MATH 1340	3
Mathematical Methods or Mathematical Studies or Mathematics			
Standard Level	5	MATH 1450 (Pre-calculus w/ Trigonometry)	4
Mathematical Methods or Mathematical Studies or Mathematics			
Higher Level	4	MATH 1450 (Pre-calculus w/ Trigonometry)	4
Higher Level	5	MATH 1460 (Calculus 1)	4
Visual Arts, Standard Level	4, 5, 6, 7	ART 1301	3
Music, Standard Level	4, 5, 6, 7	MUS 1307	3
Theatre Arts,			
Standard Level	4, 5, 6, 7	COMM 2312	3
Higher Level	4, 5, 6, 7	COMM 1615	6

College-Level Examination Program (CLEP)

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 several times a month throughout the academic year. For available test dates, contact the:

Testing Center

UTPA Community Engagement & Student Success (CESS) Bldg.
RM 1.101 1407 E. Freddy Gonzalez Drive Edinburg, TX
78539-2999

Telephone: (956) 665-7583

E-mail: testing@utpa.edu

Website: utpa.edu/step

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 once the official score report is sent to UTPA (approximately three weeks after exam) and after he or she officially enrolls at the University. CLEP credit cannot be used to clear financial aid deficiencies.

Students who do not plan to enroll at the University 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/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 website at: <http://clep.collegeboard.org> Students are also recommended to obtain an appropriate textbook and/or study guide for the specific test(s).

Registration fees and test dates for CLEP exams are outlined in a flyer available at the UT Pan American Testing Center.

CLEP Subject Examination

UTPA Course Number	Subject Exam Title	Sem. Min. Score	Credit Hour
BIOL 1401	Biology	50	4
BIOL 1401, 1402	Biology	50	8
BLAW 3337	Intro Business Law	54	3

CHEM 1301, 1101,1302, 1102	Chemistry	52	8
CIS 1301	Info Sys and Comp Appl	51	3
EDCI 3000-	Intro to Educ Psychology level division credit	50	3
ECON 2301	Prin of Macroeconomics	55	3
ECON 2302	Prin of Microeconomics	53	3
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	50	3
MATH 1450	Pre-Calculus	50	4
MATH 1460	Calculus	50	4
POLS 2313	American Government	50	3
PSY 1310	Introductory Psychology	50	3
PSY 3337	Human Growth & Dev.	50	3
SOCI 1313	Introductory Sociology	50	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

OTHER EXAMS -- In addition to the exams listed above, The College Board also offers the following exams: College Composition, College Composition Modular, Natural Science, Humanities, Human Growth & Development, Social Sciences & History, College Mathematics, and Financial Accounting. Although these exams are not currently accepted at UTPA they may still be administered at our campus and transferred to another institution.

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 pg. 207 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

Each student is provide with a degree plan using the DegreeWorks system upon admission to the university. The degree plan in DegreeWorks is the official plan which will be used to determine eligibility for graduation. (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 declare their new major by completing a Change of Major form and submitting it to the Office of the Registrar. The form is available online at www.utpa.edu/registrar, or a hard copy is available in the Registrar's Office, Student Services Building Room 1.150 or at the University Academic Advising Center.

Students needing a hard copy of their degree plan may print the plan from DegreeWorks.

Graduation Policies and Procedures

Application for Degree

All students who intend to receive a degree from The University of Texas-Pan American must apply for graduation by the published deadline in the University Calendar, which is approximately nine months prior to the intended date of graduation. Students may apply for graduation in ASSIST after completion of 90 semester credit hours. 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 pppropriate coursework.

Graduation Fee

A non-refundable graduation fee of \$32 is charged for undergraduate and graduate degrees. This fee is payable online via ASSIST, or at the Office of Payments and Collections, Student Services Building, Room 1.145, after the student applies for graduation. 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 applied for graduation and do not meet graduation requirements for their anticipated 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, which must be worn at commencement. (No students will be permitted to participate unless attired in 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 mailing address must be on file with the Office of the Registrar. Information will be sent to the student's UTPA (BroncMail) e-mail address. Students are responsible for checking this address regularly. 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/her final institutional 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/her last semester of coursework, and an honors listing in the program does not guarantee graduation with honors upon calculation of the institutional 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 The University of Texas-Pan American. The four-story brick and glass structure contains 137,000 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 one million print and online books, microfilm and audio visual items and more than 60,000 print and online journals. 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 Collection and the Border Archive. Materials available pertain to Southern Texas including the Rio Grande Valley and northeastern Mexico.

The library has close to 300 microcomputer workstations available for accessing information resources and e-mail. Connectivity with the Internet provides access to UTPA online catalog and online full text resources. Library patrons are offered services that include reference and information consultation and assistance, online 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 patron library card. The benefits of the public patron library card extended for one full year and members: may check out books 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. UT Pan American students that are not enrolled with incomplete courses need to purchase the Public Patron Library card if they wish to check out books.

All online resources of the University Library are available throughout the year. Detailed information about hours and services may be obtained at the circulation desk or the Library Web site at www.lib.utpa.edu, or by calling (956) 665- 2005 or voice/TDD (956) 665-2763.

University Academic Advising Center

The University Academic Advising (UAAC) Center utilizes a hybrid model of academic advisement with both a centralized and decentralized component. Centrally located in Southwick Hall, fourteen academic career advisors provide informative academic advisement, career advising and Texas Success Initiative (TSI) advisement. Housed in the six academic colleges, professional guidance counselors and academic career advisors 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. In addition, the Sophomore Academic Mentoring (SAM) Program is also housed in Southwick Hall. This program hires Junior and Senior students to serve as mentors for UTPA second year/ sophomore students focusing on fostering the academic and social integration of the student in the university community. Academic Advisement and Career Guidance Services

The UAAC 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 freshmen and 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.).
- Graduation Planning Assistance for Seniors impacted by the Excess Credit Hour limit.
- 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.

University Academic Advising Center
Southwick Hall, Room 101
1201 W. University Dr.
Edinburg, TX 78539-2999
Telephone: (956) 665-7120

E-mail: advisement@utpa.edu
 Web: www.utpa.edu/advisement

Learning Assistance Center

The purpose of the Learning Assistance Center (LAC) is to provide all students with academic and student support programs that enable them to succeed in college through a variety of support services that address their educational and personal needs. The major goal of this program is to increase retention and graduation rates while providing quality support programs.

The LAC is made up of various units. The LEAC Building houses International Admissions and Services, the Student-Athlete P.O.W.E.R. Center, the Computer-Assisted Instruction (CAI) Center for Developmental Math, Supplemental Instruction, and all tutorial centers, except for the University Writing Center, housed on the first floor of the library in Academic Services Building Room 2.130. Please call (956) 665-2585 for connections to any of these services, all available at no additional cost. Detailed information is available at www.utpa.edu/lac.

Computer-Assisted Instruction for Developmental Math:

This unit provides academic support to students enrolled in Math developmental coursework by providing academic assistance through the use of commercial software tutorials.

Office of International Admissions and Services: This office unit assists international students in transitioning to study in the United States. Staff helps students with the to admissions and immigration process, compliance with federal regulations, customs/culture transition issues, insurance requirements and other processes needs that help the student make a successful adjustment to student life in the United States. This office keeps both the University and the international student in compliance with federal regulations and serves as the liaison for both the University and the student with all federal immigration agencies.

Student-Athlete P.O.W.E.R. Center: Academic support and general advisement for UT Pan American student-athletes are coordinated in this unit. Study hall requirements, academic programming provided by various LAC units, and activities related to college success are monitored in this unit with the support of other departments throughout campus.

Supplemental Instruction (SI): Supplemental Instruction is an academic enrichment program that is offered in traditionally difficult courses. SI leaders, who have successfully completed the course are assigned to, facilitate the SI discussion and review sessions. Designed to supplement, not replace class lectures and practice, 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 three times weekly for one hour or twice weekly for 1.5 hours. Additional sessions are held prior to exams.

Tutoring: Working in a small group or individual basis, this unit helps students improve their comprehension of coursework and develop successful academic skills and practices by providing them with support provided by professional staff and peer tutors. Tutoring is available in the subject areas of American Sign Language, biology, chemistry, French, history, math, philosophy, physics, political science, and Spanish. Writing tutoring across the disciplines is available in the University Writing Center. All tutors are provided training throughout the semester on tutor pedagogy. LAC's training program is certified by the College Reading and Learning Association.

The University Writing Center

The University Writing Center (UWC), located in 2.130 of the Academic Services Building, offers UTPA students, faculty, and staff 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 a computer classroom for student drop-in use, and a resource area and meeting space for the University's Writing Across the Curriculum program.

University Writing Center
 Academic Services Building 2.130
 Phone: (956) 665-2538
 Web: www.utpa.edu/writingcenter

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 utilizes Advanced Services for Student Information Supported by Technology (ASSIST), an online system for student self-service.

With ASSIST technology, students may access general, academic and financial information from their laptop, tablet, smart phone, or other internet-accessible device. 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, or by phone at 956-665-2020.

Official Means of Communication with Students and UTPA

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

Web for Students: Admissions, grades, registration and financial information can be accessed and managed in ASSIST by logging in to the MyUTPA portal (my.utpa.edu).

Web services include:

- Class Schedules
- Admission Information - View Admission Status
- Registration
 - Registration for classes
 - Change your class schedule (during the add/drop period published in the official calendar)
 - View Class Availability

- Add your name to the wait list for a closed class
- Student Schedule (graphic)
- Student Schedule (detailed)
- View Fee Assessment
- View degree plan in DegreeWorks
- Student Records
 - View Address Information
 - Update Address
 - Update Phone Numbers
 - View Grades
 - Request Official Academic Transcripts
 - View Unofficial Academic Transcripts
 - View Account Summary
 - View Your degree plan in DegreeWorks
- Financial Aid Awards
- Payment Services
 - Credit card
 - E-check
 - Emergency Loan Applications

Students may apply for admission online at www.applyTexas.org.

The University catalog is available online at www.utpa.edu/catalog.

Student Rights and Responsibilities

Purchase of Textbooks

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

Student Travel

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

A. Purpose

The purpose of this policy is to set forth University rules and procedures regarding student and pre-college University program participant travel and to comply with The University of Texas System policy and state law (Texas Education Code §51.949) relating to student travel. University students may travel off campus when representing a student organization, University department or engaging in intercollegiate competition or academic activities. Examples of student travel include, but are not limited to, class field trips and assignments, attendance at scholarly or professional conferences, University-funded student organization travel, class trips for educational or cultural enrichment, athletic,

student publication, dramatic, music or forensic competition or performances, student leadership conferences, placement forums, and graduate school visits.

B. Authorization

Student and pre-college University program participant travel, as described above, must be registered with and approved by the dean of students or his or her designee. The Authorization for Student Travel and Release and Indemnification Agreement 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 and Indemnification Agreement Form with the Authorization for Student Travel Form.

C. Statutory Requirements

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

1. An activity or event organized and sponsored by the University. An activity or event is considered to be organized and sponsored if it has been planned and funded by the University and approved by the dean of students or his or her designee.
2. The activity or event is located more than 25 miles from the University; and
 - (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 substances. Operators shall not drive while under the influence of drugs or alcohol. This includes over the counter or prescription medication that may impair the driver's ability.

(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. Twelve and 15-passenger vans shall not be used to carry more than 9 occupants (including the driver) at any one time.

Consideration should be given to decreasing the number of passengers if luggage is to be transported in the same vehicle. Luggage should be stored under seats or in the rear storage area and in a manner that does not obstruct the view of the driver.

(d) License and Training

Each operator of a motor vehicle shall have a valid operator's license, be at least 18 years of age, and trained as required by law to drive the vehicle that will be used. Persons who drive a 12 or 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 and any applicable University policy.

(f) Legal Operation of Vehicle and Driving Schedule

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

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

(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 UTS157-The University of Texas System Business Procedures Memorandum 16-05-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02). www.utsystem.edu/bpm/16.htm.

(b) Operators of Vehicles

All operators of vehicles owned, rented, or leased by the University shall be employees of the University and shall have a valid operator's license for the operation of the particular vehicle. In addition, operators shall have a current motor vehicle record on file with the University Physical Plant. Drivers must have a rating of 3 points or less as required by UTS157-The University of Texas System Business Procedures Memorandum 16-05-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02).

(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.

(d) Rental Vehicles

All vehicles are required to be rented through the UTPA Travel Services office. All drivers of rental vehicles must be listed on the vehicle rental agreement.

(e). Business Procedures Memorandum

For additional information regarding insurance, safety, and mode of travel, refer to UTS157 BPM 16-5-02 entitled Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-05-02). A copy of the policy can be obtained at the Office of the Vice President for Business Affairs or at www.utsystem.edu/bpm/16.htm.

(f.) Coordination of Travel

1. Each group must designate a travel coordinator, who is responsible for submission of all travel documents and carrying all necessary documents on the trip.
2. When possible, the advisor or group sponsor should travel with the group and serve as travel coordinator.
3. In case of an accident, the travel coordinator or designee will contact the University Police Department, who will notify appropriate personnel. All students involved in a vehicle accident are required to visit Student Health Services upon their return to the University regardless of the extent of any injury incurred. Students on official University travel are covered by the institution's accident insurance policy. Pre-college University program participants who are not enrolled at UTPA are not eligible for medical care at Student Health Services.
4. Prior to leaving, each group must receive a pre-trip orientation, which must include:
 - Applicable rules of conduct as per the University's Student Conduct Code and this Student Travel Policy.
 - Itinerary and contact information.
 - Safety issues while traveling and while at the destination point.
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.
6. All students who travel with a group are required to stay with that group throughout the duration of the trip. Pre-college University program participants, who are not enrolled as students at the University must abide by the policy and procedures of their program.

Annual Security and Fire Safety Report

The Annual Security and Fire Safety Report (previously

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

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

During emergency situations the University Police Department can be reached by calling 911 or dialing HELP (ext. 4357) from any University phone. For non-emergencies the police can be reached by dialing (956) 665-7151. The University Police Department is located at 501 N. Sugar Road or they can be reached at police@utpa.edu.

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

Any law enforcement information provided by state law enforcement agencies concerning registered sex offenders may be obtained from the UT Pan American Police Department at (956) 665-7151.

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, visit the University Police website at www.utpa.edu/police/.

Higher Education Opportunity Act (HEOA)

The Higher Education Opportunity Act (HEOA) specifies the University's 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.

Annual Fire Safety Report

The Department of Environmental Health and Safety (DEHS) is charged with oversight of the Fire Safety Program which ensures compliance with the National Fire Protection Association (NFPA) codes and standards, 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 requirements. 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 recorded, information regarding the location, nature, as well as the date and time 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 the Academic Support Facilities Complex (ASFC), Room 142. In addition, a copy of the report can be accessed via the DEHS website at <http://utpa.edu/safety/fire> or the UT Police website at www.utpa.edu/campusafety.

Emergency Response and Evacuation Procedures

The University Police Department, in conjunction with the Department of Environmental Health and Safety, is charged with the Emergency Response Program on the campus. The program's primary goal is to ensure that in the event of an emergency the University 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 the Academic Support Facility Complex, Room 142, or it can be requested by contacting the Department of Environmental Health and Safety at (956) 665-3690. In addition, the procedures can be accessed via the Department of Environmental Health and Safety website at <http://utpa.edu/ehs> <http://utpa.edu/safety/emergency>.

Gang-Free Zones

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

Family Educational Rights and Privacy Act (FERPA)

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

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

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

1. To appropriate University officials who require access to educational records in order to perform their legitimate educational duties.
2. To officials of other schools in which a student seeks or intends to enroll, is enrolled in or receives services from, upon request of these officials.
3. To federal, state or local officials or agencies authorized by law.
4. In connection with a student's application for, or receipt of, financial aid.

5. To accrediting organizations or organizations conducting educational studies, provided that these organizations do not release personally identifiable data and destroy such data when it is no longer needed for the purpose for which it was obtained.
6. To the parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954.
7. In compliance with a judicial order or subpoena provided a reasonable effort is made to notify the student in advance, unless such subpoena specifically directs the institution not to disclose the existence of a subpoena.
8. In an emergency situation if the information is necessary to protect the health or safety of students or other persons.
9. To an alleged victim of any crime of violence, the results of the alleged perpetrators disciplinary proceeding may be released.

Additionally, any law enforcement information provided by state law enforcement agencies concerning registered sex offenders may be released from the UT Pan American Police Department. The police department can be contacted at (956) 665-7151.

The University will release information in student education records to appropriate University or UT System officials as indicated in number one above when there is a legitimate educational interest. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor or collection agent); a person serving on The University of Texas System Board of Regents; or a student serving on an official committee or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

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

Directory Information

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

1. Name, address, telephone number
2. Date and place of birth
3. Major field of study
4. Participation in officially recognized activities and sports
5. Dates of attendance
6. Most recent previous educational institution attended
7. Classification
8. Degrees, honors, and awards received
9. Date of graduation
10. Physical factors (height and weight) of athletes
11. Photographs
12. University e-mail address

Students may have directory information withheld by notifying the Office of the Registrar in writing or in ASSIST (directions are available online at www.utpa.edu/registrar). The institution will honor requests for nondisclosure until the student grants permission, in writing, to release the information.

Access to File

Upon written request, the University shall provide a student with access to his or her educational records. The UTPA vice president for business affairs 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).
- 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 guardians.
2. Confidential letters of recommendations (letters of recommendation to which a student has waived his/her access).
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.
4. Records of law enforcement units.
5. Employment records related exclusively to an individual's employment capacity.
6. Medical and psychological records.
7. Records that only contain information about an individual after the individual is no longer a student at the institution.

Challenge to Record

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

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

Decisions of the hearing officer will be 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. The decision of the President is final.

Copies

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

Complaints

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

Drug and Alcohol Policy

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

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

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

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

Hazing

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

Individuals

A person commits an offense if the person:

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

Organizations

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

Definition

The term “hazing” is broadly defined by statute to mean any intentional, knowing, or reckless act occurring on or off the campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in an organization. Hazing includes, but is not limited to:

- Any type of physical brutality, such as whipping, beating, striking, branding, electronic shocking, placing of a harmful substance on the body, or similar activity;
- Any type of physical activity, such as sleep deprivation, exposure to the elements, confinement

in a small space, calisthenics, or other activity that subject the student to unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;

- Any activity involving the consumption of a food, liquid, alcoholic beverage, liquor, drug or other substance that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;
- Any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame or humiliation, that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subdivision; and
- Any activity that induces, causes, or requires the student to perform a duty or task that involves a violation of the penal code.

The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution.

The University of Texas System Board of Regents’ Rules and Regulations, Rule 50101, Sec. 2.8 states that “any student, who acting singly or in concert with others, engages in hazing is subject to discipline. State law prohibits hazing in state educational institutions (Texas Education Code, Section 51.936). Hazing with or without the consent of a student, whether on or off campus, is prohibited and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline. Initiations or activities of organizations may include no feature that is dangerous, harmful, or degrading to the student and a violation of this prohibition renders both the organization and participating individuals subject to discipline.”

Hazing with or without the consent of a student is prohibited by the UT System, and a violation of that prohibition renders both the person inflicting the hazing and the person submitting to the hazing subject to discipline. Initiations or activities by organizations may include no feature, which is dangerous, harmful, or degrading to the student, and a violation of this prohibition renders both the organization and participating individuals subject to discipline. Activities, which under certain conditions constitute acts that are dangerous, harmful, or degrading, in violation of rules include, but are not limited to: calisthenics, such as sit-ups, push-ups or any other form of physical exercise; total or partial nudity at any time; the eating or ingestion of any unwanted substance; the wearing or carrying of any obscene or physically burdensome article; paddle swats, including the trading of swats; pushing, shoving, tackling, or any other physical contact; throwing oil, syrup, flour, or any harmful substance on a person; rat court, kangaroo court, or other individual interrogation; forced consumption of alcoholic beverages either by threats

or peer pressure; lineups intended to demean or intimidate; transportation and abandonment (road trips, kidnaps, walks, rides, drops); confining individuals in an area that is uncomfortable or dangerous (hot box effect, high temperature, too small); any type of personal servitude that is demeaning or of personal benefit to the individual members; wearing of embarrassing or uncomfortable clothing; assigning pranks such as stealing; painting objects; harassing other organizations; intentionally messing up the house or room for clean up; demeaning names; yelling and screaming; and requiring boxing matches or fights for entertainment.

Immunity

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

Student Conduct

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

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

University, are a part. As students prize rights and freedoms for themselves, they are expected to respect the rights and freedoms of others.

The administration of student discipline at the University is a responsibility shared by students, faculty, and administrative staff. In many cases, peer group influence, counseling, admonition, and example may resolve problems of student conduct. Should these preferred means fail, the recourse is disciplinary course of action. 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/she is also punished by state or federal authorities for the same act.

Students are subject to federal, state, and local laws as well as University rules and regulations. Students are subject to reasonable disciplinary action, including suspension and expulsion in appropriate cases, for breach of federal, state, or local laws or University rules and regulations. Individuals who are not currently enrolled at the University remain subject to the disciplinary process for conduct that occurred during any period of enrollment, and for statements, acts, or omissions related to application for enrollment or the award of a degree. Rules and regulations relating to the students of the University are enacted with the view 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 UTPA Student Conduct Code can be found in Section 5.5.2. of the UTPA 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.

All students of the University are subject to the rules and regulations governing student conduct and discipline as set out in Series 50000, Rule 50101, Sec. 2 of the Rules and Regulations of the Board of Regents of The University of Texas System, and the Handbook of Operating Procedures.

Making a False Alarm or Report

Pursuant to section 42.06 of the Texas Penal Code, it is a state jail felony to report a present, past, or future bombing, fire, offense, or other emergency that a person knows to be false relating to an institution of higher education.

Copyrighted Material

Using peer-to-peer (P2P) file-sharing applications to illegally share copyrighted music and movies is the No. 1 way students violate federal copyright law. Students, faculty and staff are all obligated to comply with federal law and University policy regarding appropriate use of information technology and avoiding copyright infringement.

Bandwidth

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

Copyright complaints and legal content alternatives

If you copy and distribute copyrighted material without legal permission, you may be found liable for civil or criminal copyright infringement. Civil penalties for federal copyright infringement range from \$750 per song to \$150,000 in damages for each willful act. Criminal penalties can run up to five years in prison and \$250,000 in fines. The University cannot protect you from a copyright complaint. The University may also be required by law to disclose information about you to a complainant for use in pursuing legal action against you. The process for handling DMCA notices received by the University is outlined in the Digital Millennium Copyright Act (DMCA) policy. The penalties for violation of copyright law can range from University sanctions to civil and criminal prosecution. You are not protected from financial penalty just because you received material at no cost or are distributing material with no charge. Your only protection is to not possess or distribute any unlicensed copyrighted material. There are many websites that provide legal online music, movies, and other content. Refer to the “Keep It Legal” page for a list of services that comply with the DMCA.

Peer-to-peer software

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

Network bandwidth

Most P2P applications are configured so other users can access your hard drive and share your files all the time. This constant file transfer can degrade your computer’s performance and generate heavy traffic loads on the university network. P2P applications can consume your weekly allocation very quickly. The university’s network bandwidth consumption is monitored. If your usage impacts the overall performance of the network, your computer may be blocked. If you use a P2P application to share content legally, you should know how to control or disable the application.

Privacy

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

Security

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

Resource use

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

University policy and assistance

By running a P2P application, you may be consuming excessive network bandwidth and/or violating copyright law, both of which are violations of the University’s rules for acceptable use of information technology. You may also be sharing confidential information and/or making your computer insecure. If you have questions about P2P applications, please call the IT Help Desk at (956) 665-2020 or send an e-mail to the ITS Help Desk.

Sexual Assault

Introduction

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

Description of Educational Programs

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

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

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

Procedures to Follow

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

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

The CARE office, located in the Empowerment Zone (UC322), is open Monday through Friday. After hours and weekends, a survivor or witness can contact the University Police Department at (956) 665-7151 and the officer will arrange for a CARE advocate to meet with you. When you talk to a CARE advocate, you are not making a report or a formal complaint. All discussions are private and confidential and do not commit you to further action. Conversations with advocates are not disclosed to anyone without your expressed permission, unless there is a threat of physical harm to you or others. No matter when the assault occurred or what you decide to do; consider counseling. Sometimes talking can be the most important step to healing. You may contact the CARE office at any time to arrange an appointment. Friends of survivors may seek counseling and support as well.

CARE can:

- Provide information on legal and disciplinary reporting options.
- Support a complainant through any private University complaint.
- Assist confidentially to manage the impact on academic

and living situations following a sexual assault (provided reasonable alternatives are available).

- Assist in obtaining on- and off-campus resources for medical, legal, or emotional support.

Notification of Law Enforcement

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

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

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

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

Changes in Academic and Living Situation

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

Procedures for Campus Disciplinary Action

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

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

Solicitation on Campus

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

Student Academic Responsibilities and Appeals

Academic Responsibilities

Students are expected to inform themselves thoroughly concerning the regulations of the University and the course requirements for degrees, and to make inquiries in case of doubt. It shall not be the University’s responsibility should complications arise because of failure to follow regulations and requirements.

Regulations will not be waived, nor exceptions to requirements made, on a plea of ignorance of the regulations and requirements. Students, therefore, should become familiar with all of the information related to the program contained in the University Catalog, on the University website, and in other official publications.

Each student, by registering, enters an academic college of the University and, except as to conduct, is thereafter under its jurisdiction with regard to the student’s program of study and degree requirements. Students should work directly with the person in their major department who is assigned the responsibility of supervising their programs concerning course requirements and options, deficiencies, degree plan and special regulations. Requests to waive regulations and/or requirements should be directed in writing to the dean of the college.

Academic Appeals

Periodically, misunderstandings arise with regard to academic expectations and final grades. Students wishing to appeal final grades or misunderstandings in academic standards should first discuss the matter with the individual 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 appropriate department chair within one year after the disputed grade is issued or the misunderstanding occurred. The department chair will respond in writing to the student within 10 class days of the receipt of the student’s written appeal.

Pursuant appeals will be written and directed within 10 class days of the date of the department chair’s decision to the school, college, or division College Academic Appeals Committee. The committee will consist of a panel of three faculty members, two of who 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 hearing will take place within ten class days of the dean’s/ director’s receipt of the student’s written appeal. 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. 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 ten class days of the close of the hearing. The student may appeal in writing within 10 class days to the dean/director. The dean’s/ director’s decision will be final, and it must be mailed or delivered in person to the student within 10 class days of the receipt of the student’s written appeal.

Student Complaint Procedures

Purpose

The University of Texas-Pan American seeks 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.

UT Pan American declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner that does not discriminate because of a student's or prospective student's race, color, religion, sex, national origin, age, veteran status, citizenship, disability, gender (including sexual harassment), sexual orientation, gender expression, and gender identity or other characteristics that lawfully cannot be the basis for provision of such services. Students are protected from coercion, intimidation, interference, harassment, retaliation, or discrimination for filing a complaint, or assisting in an investigation. Students may pursue complaints through the Office of the Dean of Students.

Student Advisement for Concerns/Complaints

The Office of Student Rights and Responsibilities, located in the University Center, Rm. 305, offers assistance to students who have concerns or complaints other than those addressed above, or who have questions regarding existing policies and procedures. The Handbook of Operating Procedures outlines the method to file complaints in the following sections:

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

Information about Immunizations and Communicable Diseases

Bacterial Meningitis

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

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

What are the symptoms?

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

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

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.
- The vaccination is very safe. Most common side effects are redness and minor pain at injection site for up to two days.
- Contact Student Health Services at (956) 665-2511 for details about vaccination.

How can I find out more information?

- Contact your own health care provider.
- Contact Student Health Services, located at 613 North Sugar Road, Edinburg, Texas, 78539.
- Contact the regional Texas Department of Health office at:

HEALTH SERVICE REGION 11-Harlingen
601 W. Sesame Drive, Harlingen, TX 78550,
Mail Code 1907
Phone: (956) 423-0130 • FAX: (956) 444-3298
Contact websites:

CDC Disease Information
www.cdc.gov/ncidod/dbmd/diseaseinfo/

American College Health Association
www.acha.org/

Communicable Diseases

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

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

1. 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).

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

Immunizations

Immunization is required for admission to certain programs of study at The University of Texas-Pan American unless the student submits to the admitting official at least one 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 coursework involves direct contact with animals or animal remains as required by the Texas Board of Health, Education Code 51.933; 25 TAC 97.64. The following immunizations are required for these students:

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

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 housing.

New Immunization Requirement for Students

Senate Bill 62 was passed during the 2013 legislative session and signed into law. For incoming students to UT Pan American, this new law, effective January 1, 2014, requires that all entering students under 21 years of age attending an institution of higher education in the state of Texas, including transfer students, show evidence of having received the Meningococcal Meningitis Vaccination no more than 5 years and no less than 10 days prior to the start of the semester. The law also allows for exemptions on medical grounds or reasons of conscience, including religious belief.

Students must return the Meningococcal Meningitis Vaccination Requirement Form along with one of the following documents:

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

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

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

For questions about the vaccination requirement, please contact:

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

Edinburg, TX 78539
Phone: (956) 665-2999

Call (956) 665-5375 if you questions regarding this policy.

Immunization Requirement for Residents

Incoming students must comply with House Bill 4189 (HB4189), which was passed during the 2009 legislative session. Effective January 1, 2010, 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 must 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:

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

Students who fail to satisfy this requirement 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, e-mailed 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.

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

DEAN OF STUDENTS

The role of the Dean of Students is to ensure that individual and collective student issues are properly addressed. Students

are encouraged to have the most enriching college experience possible and to prepare themselves with the leadership skills for life during their student careers and beyond UTPA. This can be accomplished by offering meaningful educational, social, cultural, wellness and leadership programs which encourage self-fulfilling goals achievement and improve self-esteem. The Office of the Dean of Students provides a comprehensive offering of services and programs, and works with the Child Development Center, Counseling and Psychological Services, Disability Services, Office for Student Involvement, Residence Life, Student Health Services, Student Rights and Responsibilities, the Student Union and Wellness and Recreational Sports.

(956) 665-2260
dos@utpa.edu
<http://:utpa.edu/dos>
University Center 104

Child Development Center

The center provides students, faculty, and staff with access to affordable child care and early education for their children in a secure and nurturing environment. Student parents are enabled to achieve their pursuit for academic and career success with confidence that their child is receiving quality childcare.

(956) 665-2469
<http://:utpa.edu/childcare>
Van Week

Counseling and Psychological Services

Counseling and Psychological Services (CaPS) meets the needs of students with a variety of mental health issues. The clinical therapist's responsibility is to assist the student as s/he works toward achieving those goals for personal growth and development. The student's responsibility is to be actively involved in the therapeutic process.

CaPS therapists may work on a wide variety of issues that are presented by the student, including but not limited to the following: depression, family problems, sexual assault, anxiety, relationship issues, eating disorders, substance abuse issues, grief/loss, self-esteem, anger management, assertiveness, sexuality, parenting, divorce, academic difficulties, career decisions, conflict resolution, couples counseling, suicidal ideation, domestic violence, health issues, post-traumatic stress disorder, or obsessive-compulsive disorder. Services are free for currently enrolled students and are predominantly confidential (limits to confidentiality will be discussed at the first appointment). Services are offered to individuals and to groups of students. Students may walk-in or call for an initial appointment.

(956) 665-2574
counseling@utpa.edu
<http://:utpa.edu/counseling>
University Center 109

Disability Services

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

Students with disabilities (including temporary disabilities) are encouraged to contact Disability Services for a confidential discussion of their individual needs for academic accommodation. It is the policy of UT Pan American to provide flexible and individualized accommodation to students with documented disabilities that may affect their ability to fully participate in course activities or to meet course requirements. To receive accommodation services, students must be registered with the office.

(956) 665-7005
disabilityservices@utpa.edu
<http://:utpa.edu/disability>
University Center 108
Video Phone (956) 683-6003 or 1-877-570-7645

Office for Student Involvement

The Office for Student Involvement is the home to over 200 student organizations. Students have the opportunity to participate in Community Service Connection, Greek Life, Student Government Association, Student Leadership Academy, the University Program Board and the Bronc Mentoring Experience. A complete listing of organizations and opportunities for involvement can be found on Bronc Link (utpa.edu/bronclink).

(956) 665-2660
involvement@utpa.edu
<http://:utpa.edu/involvement>
University Center 205

Residence Life

The Office of Residence Life provides convenient and affordable housing to students attending the university. Residence Life offers both traditional residence hall and apartment style housing that is located in close proximity to university resources such as the University Library, Wellness Recreation Sports Complex, and classrooms. Students living on campus will also be able to participate in social and educational events hosted by the Residence Life staff. Students who live on campus will also have a meal plan that will provide

meals at the University Dining Hall or other on-campus venues through the use of Dining Dollars.

Freshmen having earned fewer than 30 semester credit hours (excluding credit hours accumulated through Advanced Placement and concurrent enrollment), who are enrolled for nine or more semester credit hours during the fall and/or spring semesters are required to reside in a University-owned residence hall. Students who meet one or more of the established criteria are exempt from the freshman housing requirement. Criteria can be found on the Residence Life website.

The University is entitled to check the student's criminal history record and must notify the student if this information will be used to deny housing.

(956) 665-3439
home@utpa.edu
utpa.edu/reslife
University Center 305

Student Health Services

The 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. Routine immunizations and tuberculosis (TB) testing are also available. Office visits are free of charge as are most educational services. Student Health Services offers low-cost charges for medicines, supplies and any needed lab tests. The Class D pharmacy can fill most prescriptions written in the clinic and carries a selection of over-the-counter items. Student Health Services is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC).

Students can use our online portal to make appointments and fill out required forms. Go to <https://onlinestudenthealth.utpa.edu/osh>. Log-in with UTPA username and password and select options on the left side of the screen.

(956) 665-2511
studenthealth@utpa.edu
<http://utpa.edu/studenthealth>
613 N. Sugar Road

Student Rights and Responsibilities

The Student Rights and Responsibilities office educates students of their rights and responsibilities as community members, to help them understand the balance between individual and community rights, and to foster a community atmosphere conducive to academic success. Our goal is to create a learning environment that ensures a fair and objective process that upholds behavioral and academic standards expressed in the student code of conduct. Staff members are also trained to provide students with assistance in filing

grievances.

Broncs Care Report It! (utpa.edu/reportit) is an online form that can be used to report any behaviors of concern that occur involving UTPA students, whether these behaviors occur inside or outside of the classroom setting. Reportable behaviors may include Student Code of Conduct concerns, Academic Integrity violations, or concerns about student wellbeing. In addition this form can be used for students to report complaints about UTPA faculty, staff or departments.

(956) 665-5375
srr@utpa.edu
<http://utpa.edu/srr>
University Center 315

Student Union

The Student Union is the community center of the university that serves students, faculty, staff, alumni, and guests. The building hosts several campus events and provides services and conveniences for students.

The Food Court offers Tacos Ponchos, Su Café, Chic-fil-A, Mein Bowl, Slice of Life and Subconnection. The Information Desk is available to provide assistance to students who need information and also to borrow magazines, laptops and board games. Billiards, air hockey and video games are offered in the Game Room. The building offers various amenities including an ATM machine, Bronc Print wireless printing, cell phone charging station, a convenience store, TV Lounge areas and study rooms. Meeting Rooms are available for all registered student organizations and departments.

(956) 665-7989
studentunion@utpa.edu

<http://utpa.edu/studentunion> (URL's dont work)

Wellness and Recreational Sports

The Wellness and Recreational Sports Department is committed to positively engaging every member of the university community and supporting academic productivity by promoting active healthy lifestyles through dynamic programs that provide holistic personal growth. Programs offered include Intramurals, Club Sports, Group Exercise, Personal Training, Fitness Assessments, Aquatics Programs, Climbing Wall Programs, Wellness Programming and Open Recreation.

The Wellness and Recreational Sports Complex (WRSC) is a state of the art facility that opened in August of 2007, and includes the following facility spaces: main gym, multi-purpose gym, racquetball courts, weight room, cardio theatre, dance studios, climbing wall, indoor track (1/10th mile), classroom/ audiovisual theatre, relaxation lounges, wellness energy zone,

and a fitness assessment room. The outdoor area includes a swimming pool, hot tub, basketball courts, beach volleyball courts, tennis courts, palapa/barbecue area, softball field, and intramural sports fields.

(956) 665-7808
recsports@utpa.edu
<http://: utpa.edu/wellness> (URL's dont work)
615 N. Sugar Road

STUDENT SERVICES

Career Services

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

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

Individual Career Counseling

Students are encouraged to discuss their choice of major, as well as related career plans, with the counseling staff of Career Services. Advisors are also available to review résumés, conduct mock interviews and plan for graduate school. Staff appointments for these services are recommended at least 2-3 days in advance. The professional staff is also available to review résumés and cover letters, and offer suggestions for possible improvement. Information on Majors
More than 40 handouts provide information on various majors with regard to related occupations, 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, and literature addressing all occupational areas and various career development topics. 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 UT Pan American's official job/résumé posting site available for students and alumni only. All full-time entry-level, experienced, internships and part-time jobs are posted on the BCC. By signing up on the BCC, students can learn more about their upcoming careers and explore their choices. In addition to job postings, students can also sign up for all upcoming job fairs and interviews. Students looking for part-time employment either on or off campus can find all of the positions listed by going to the Bronc Career Connection at any time of the year. To find out more information about pursuing a part-time job, a student can make an appointment with his/her appropriate career advisor.

Walk-In Hours

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

Career Fairs

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

Office Hours

Monday-Thursday

8 a.m.-6 p.m.

Friday

8 a.m. - 5 p.m.

The University of Texas-Pan American
Career Services

Student Services Building, Room 2.101

1201 W. University Drive

Edinburg, TX 78539-2999

Telephone: (956) 665-2243

Fax: (956) 665-2244

Web: www.utpa.edu/careerservices

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 help prepare them for success in college and beyond.

The Advanced Placement Summer Institutes prepare high school and middle school teachers to teach Advanced Placement and Pre-AP courses. The intensive weeklong training sessions are sponsored by the University in cooperation with the College Board.

Advanced Placement Summer Institutes
UTPA Community Engagement & Student Success (CESS) Bldg.
RM 1.1011407 E. Freddy Gonzalez Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-7570
Web: utpa.edu/step

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 Community Engagement & Student Success (CESS) Bldg.
RM 1.1011407 E. Freddy Gonzalez Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-7570
E-mail: testing@utpa.edu
Web: utpa.edu/step

Concurrent Enrollment

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.

The University of Texas-Pan American
Admissions and New Student Services
1201 West University Drive
Edinburg, TX 78539-2999
Phone: (956) 665-2999
Fax: (956) 665-2687

New Student Orientation

All entering freshmen and transfer students are required to participate in a New Student Orientation Program. The orientation program, conducted by Admissions and New Student Services, is a retention initiative designed to connect new students to UTPA.

The purpose of the required orientation is to introduce new students and their family members to the University's personnel and operations. During orientation, new students and their families receive a campus tour and are introduced to faculty, academic advisors, and support staff. New students are also provided with curricular and degree requirement information and the opportunity to register for classes. 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 parent 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 \$75 is assessed to each new student participating in the orientation program. The \$75 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.

For entering freshman students only, for summer and fall applicants, their New Student Orientation program is in two parts. Part one is to attend one of the New Student Orientation sessions and part two is to attend the Bronc Roundup which is held the weekend before fall classes. Contact the office of Admissions and New Student Services for more information at (956) 665-2999.

Student Publications

Students at UT Pan American are invited to contribute and work on the staff of student publications. Writing, editing, filming, and photography usually start before the opening of classes in the fall semester. Some positions are paid, but volunteer workers also are sought as reporters, copyeditors, and headline writers. The student-run newspaper The Pan American and Panorama magazine are headquartered in the Department of Communication in the Communication Arts and Sciences Building, Room 170, telephone: (956) 665-2541, fax: (956) 665-7122. The student-run television and radio programming are transmitted through the web-based Bronc Radio/TV. Both of these operations are located in the Communication TV/Radio Studios, telephone: (956)

665-7470 (Bronc Radio) and (956) 665-3583 (Bronc TV). All publications and programming can be accessed from the Department of Communication's website at www.utpa.edu/communication.

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. CASP is located at Emilia Schunior Ramirez Hall, Room, 1.101, telephone: (956) 665-2522.

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 farm workers and their children in pursuing higher education. CAMP provides outreach, recruitment, academic, supportive and financial assistance to migrant and seasonal farm workers 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. CAMP is located at Emilia Schunior Ramirez Hall, Room 1.113, telephone: (956) 665-5333.
- 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 sixth through 12th. 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. ETS can be found at the UTPA Annex, Room 182, telephone: (956) 665-7590.
- 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 farm workers 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. HEP is located at Emilia Schunior Ramirez Hall, Room 2.207, telephone: (956) 665-2521.
- 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. The program is housed at Emilia Schunior Ramirez Hall, Room 1.101, telephone: (956) 665-3634.

- 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. The program is located at Emilia Schunior Ramirez Hall, Room 2.202, telephone: (956) 665-2596.
- 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. The program is housed in the Lamar Building, Room 7, telephone: (956) 665-8703.
- 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 Migrant Student Success (MSS) Office serves UTPA-bound migrant and seasonal farmworker student population. The MSS office works closely with the Region One Education Service Center, school district Migrant Directors and migrant counselors, and pre-college programs to identify and provide outreach to potential university students. In addition, the office collaborates with the College Assistance Migrant Program. The goal of the office is to help students transition into post-secondary enrollment, provide support services during the academic year, and help them with their graduation efforts. The MSS Office is located at Emilia Schunior Ramirez Hall, Room 2.206, telephone: (956) 665-2080.

- Abriendo Caminos Living Learning Community (LLC) is an initiative serving migrant and seasonal farm workers students at UTPA. The Abriendo Caminos LLC is specifically designed to meet student's needs during their first two years of college, both in and out of the classroom. Students are required to sign up for course block schedules. Course blocks schedules will be used to determine supplemental instruction, study groups, monthly meetings, and possible living arrangements. Students share floors in the residence halls and attend classes together and ultimately, study together. Housing scholarships are awarded to qualified students to cover the costs of room, board, and meals. The Abriendo Caminos LLC program is housed at Emilia Schunior Ramirez Hall, Room 2.206, telephone: (956) 665-2080.

University Outreach Programs

Academic Centers

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

Border Health Office

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

UTPA Border Health Office, 1201 W. University Dr.
CESS Building, Room 1.400, Edinburg, TX 78539-2999
Phone: (956) 665-8900
E-mail: tmbhco@utpa.edu
Web: www.utpa.edu/bho

Center for Bilingual Studies

The Center for Bilingual Studies is an inter-college initiative by the Colleges of Education, Social and Behavioral Sciences, and Arts and Humanities and the University Library that works collaboratively for the purpose of addressing the critical issues of bilingualism and bilingual education as they impact children, schools, families, and communities of the Rio Grande Valley and the surrounding region.

College of Education, EDUC 2.216

Phone: (956) 665-3213

Center for Border Economic Studies

The Center for Border Economic Studies is a public policy research unit dedicated to the study of problems unique to the U.S.-Mexico border. Its research efforts are directed at publishing working papers and technical reports that encompass a wide array of economic and socioeconomic issues. CBEST-affiliated scholars conduct policy-oriented research in four key areas of importance to the border region: (1) regional economic development and trade; (2) labor market and immigration; (3) health and environmental policy; and (4) information technology. The center also publishes a quarterly newsletter, Border Business Briefs, of economic indicators in the Lower Rio Grande Valley as well as an annual forecast of these indicators.

College of Business Administration, Rm. BUSA 124E Phone:
(956) 665-7230
E-mail: cbest@utpa.edu
Web: www.utpa.edu/cbest

Center for Research in Nanotechnology and Materials Sciences

The vision of the Center for Research in Nanotechnology and Materials Sciences is to create an integrated multidisciplinary environment (science and engineering) for research, education and outreach at UTPA. The Center pools the talent and expertise from various disciplines within the science and engineering departments into a coherent materials science center and focuses on developing a predictive level of understanding on the development of polymeric and nanoparticle based material sand devices. It strives to enhance current activities to encourage and motivate students to pursue graduate school while pursuing state of the art research and to promote faculty research careers to attract external funding to UTPA.

College of Science and Engineering, ENGR 3252
Phone: (956) 665-7020
E-mail: lozanok@utpa.edu

Coastal Studies Laboratory

The Coastal Studies Laboratory (CSL), established as a marine biology laboratory in 1973 in Isla Blanca Park on South Padre Island, was reorganized and expanded in 1985 with a concentration on University education, public education and coastal research. The CSL's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island. The CSL also supports classes and field trips from the University and other schools; many universities in Texas and surrounding states use the CSL facilities for field trips each year. A number of marine-oriented courses are offered at the Lab.

100 Marine Lab Drive, South Padre Island, Texas 78597

Phone: (956) 761-2644
 E-mail: coastal@utpa.edu
 Web: www.utpa.edu/dept/csl/csl.html

English Language Institute

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

Lamar Building, Rm. 1
 Phone: (956) 665-2133
 E-mail: eli@utpa.edu
 Web: www.utpa.edu/eli

South Texas Border Health Disparities Center

The South Texas Border Health Disparities Center at The University of Texas-Pan American is dedicated to the advancement of knowledge on health disparities by enhancing the institutional capacity to conduct health disparities research addressing issues particular to the largely Hispanic population along the U.S.-Mexico border. The center was established in September 2008 by a grant from U.S. Department of Health and Human Services

International Trade & Technology Bldg.,
 Rm 1.404Q Phone: (956) 665-7937
 Web: www.utpa.edu/health

Speech and Hearing Center

The University of Texas- Pan American Speech and Hearing Center is an on-campus practicum facility under the Communication Sciences and Disorders (COMD) Department. The Center provides diagnostic and therapeutic services to infants, preschoolers, school-aged children and adults. Clinical services offered include the following: speech-language screenings, evaluations, and treatment (as warranted) as well as audiological screenings and evaluations. Clients may be recommended for therapy in the Speech and Hearing Center or referred to other treatment centers in the area. Therapy services are provided in the Speech and Hearing Center on a limited basis and include the treatment of communication disorders related to aphasia, fluency, developmental delay, voice, hearing impairment among others.

Health Sciences and Human Services Bldg. West, Rm. 1.206
 Phone: (956) 665-3587

Statistical Consulting Center

The Statistical Consulting Center is an educational and service center within the Department of Mathematics at UTPA that provides training to students, assists individuals in practical use of statistics, participates in research projects by providing high quality statistical advice and collaborates with researchers in interdisciplinary research activities. The center provides statistical consulting advice on design of experiments, data management, statistical modeling, and statistical analysis of experiments and studies. Its customers include students, faculty and research groups from UTPA, and researchers from academic and non-academic organizations in the Rio Grande Valley.

Department of Mathematics
 Phone: (956) 665-3452
 Web: <http://www.math.utpa.edu/xhwang/scc.html>

Texas Manufacturing Assistance Center

The Texas Manufacturing Assistance Center (TMAC) exists to enhance the competitive position of the state's manufacturing sector. TMAC's manufacturing professionals work with a wide range of industrial firms delivering training, providing technical assistance, and implementing best business practices. A particular emphasis is placed on the needs of small to mid-sized manufacturers. Focus areas include lean manufacturing and lean office principles, strategic management, quality systems, environment and safety. TMAC is an affiliate of the Manufacturing Extension Partnership (MEP) program of National Institute of Standards and Technology (NIST), which provides Federal funding. TMAC consists of seven partner institutions delivering services statewide.

Academic Support Facility, Rm. 1.301
 Phone: (956) 665-7011
 E-mail: tmac@utpa.edu
 Web: www.utpa.edu/tmac

UTPA Press

Established in 1983 as an extension of the teaching mission of Pan American University, the Press serves both the academic community and the community at large. Through publication of research and materials of particular interest to the Southwestern region, bilingual and bicultural studies, and Latin American business, economic, and cultural topics, the Press emphasizes research unique to the university's geographic, demographic, and cultural heritage. In addition to publishing full-length manuscripts, the Press serves as publisher/distributor to monographs, collections, and other materials chosen and edited with the various divisions of the University.

MASS Bldg., Room 116
 E-mail: bookworm@utpa.edu
 Web: <http://utpress.utpa.edu>

Valley Markets and Tourism Research Center

The Valley Markets and Tourism Research Center in the College of Business Administration addresses social, cultural, environmental and economic issues related to the tourism industry locally, regionally and nationally. Tourism studies targeted by the center include senior travelers or "Winter Texans," Mexican national visitors to the United States, spring breakers at South Padre Island, ecotourism, historic tourism, recreational tourism and local residents' attitudes and reactions toward tourism. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center.

College of Business Administration, Rm. 114 Phone
(956) 665-2829
Web: <http://coba.utpa.edu/tourism>

COMMUNITY ENGAGEMENT

The mission of the Department of Community Engagement is to enhance UTPA's engagement with the community to meet challenges and maximize opportunities in South Texas. Community Engagement is located at the International Trade and Technology Building and at the Community Engagement and Student Success Building, and it consists of three areas: Community and Economic Development, 2) Business Development and Innovation, and 3) Rural Enterprise Development. Each area, listed below with contact information, includes a number of centers, projects, and initiatives.

1. Community and Economic Development is located at the International Trade and Technology Building, 1201 W. University, Edinburg, and can be reached by calling (956) 665-3361, or visiting the respective websites.

2. Business Development and Innovation is located at the UTPA CESS Bld., Rm. 1200, 1407 E. Freddy Gonzalez, Edinburg, and can be reached by calling (956) 665-7535 or 665-7555, or visiting the respective websites.

3. Rural Enterprise Development is located at the UTPA CESS Bld., Rm. 1200, 1407 E. Freddy Gonzalez, Edinburg, and can be reached by calling (956) 665-7555 or 665-7535, or visiting the respective websites.

Community and Economic Development

- Data and Information System Center (DISC): Serves the southernmost 19 counties of Texas by providing research, data, geographic information systems, economic impact analysis, and mapping services to the community: 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. www.utpa.edu/sbnrc
- Hispanic Engineering Science and Technology (HESTEC) Program: Promotes science, technology, engineering, and math careers and education to South Texas students, teachers, and the community. HESTEC culminates in annual weeklong event that promotes STEM literacy. 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)

www.utpa.edu/bdigroup

- Small Business Development Center (SBDC): Provides managerial and technical assistance to small business owners and entrepreneurs through free, confidential, one-on-one business counseling, training, research, and business planning assistance. www.utpa.edu/sbdc
- Rio South Texas Regional Procurement Technical Assistance Center (PTAC): Provides procurement counseling, planning assistance, and training to business owners in a nine-county South Texas region to assist them in obtaining federal, state, local, and private contracts. www.utpa.edu/ptac
- Veterans Business Outreach Center (VBOC): Assists in the creation, retention, and development of veteran-owned businesses across Texas and four surrounding states through online and on-site counseling and training seminars. www.utpa.edu/vboc

Rural Enterprise Development (RED)

www.utpa.edu/red

- Texas Rural Cooperative Center (TRCC): Provides training and technical assistance to rural cooperatives, cooperative members, and member businesses in Texas with an emphasis on rural cooperative development in the South Texas region. www.utpa.edu/trccFarm
- Ownership and Rural Growers Empowerment

Project (Project FORGE): Provides outreach, training, and technical assistance to Hispanic producers of traditional crops in a 56-county border-region area in Texas and New Mexico. www.utpa.edu/forge

- Beginning Farmer Rancher Development Program (BFRDP): Provides training and assistance to beginning farmers and ranchers that are interested in directly marketing their agricultural produce to consumers through farmers markets, CSAs, and other direct-marketing techniques. www.utpa.edu/bfrd
- South-Central Initiative for Outreach and Assistance to Socially-Disadvantaged Farmers and Ranchers (OASDFR): Assists Hispanic and Black/African American farmers and ranchers through outreach, training, and technical assistance that emphasize participation in USDA programs. www.utpa.edu/sci

CULTURAL ACTIVITIES

Art Department Exhibits

The Charles and Dorothy Clark Gallery, located in the Communication Arts and Sciences Building (COAS), and the Fine Arts Complex, which also features a gallery, feature art exhibitions that are free and open to the public throughout the year. The art galleries are administered through the Department of Art. The office for the University Art Galleries is located in the Fine Arts Complex adjacent to the gallery. The gallery director may be reached at (956) 665-2655 or by e-mail at galleries@utpa.edu.

Dance Companies

UT Pan American Dance Ensemble: Founded in 1984, the Dance Ensemble is the only modern/contemporary dance company in the Rio Grande Valley. Membership in the company is open to all UT Pan American students and is determined by audition. The Dance Ensemble focuses on producing formal theatrical dance performances that maintain high artistic and production standards. The dance company office is located at the Health and Physical Education Building II, Room 110, or can be reached at (956) 665-2315.

UT Pan American Folkloric Dance Company: The UT Pan American Folkloric Dance Company, organized in 1970, has as its purpose the preservation and performance of the dance art of Mexico and Spain. During the performing season, the company presents numerous concerts for school children, the general public and private affairs throughout the University, community and state. Membership in the company is available through class audition. The dance company's office is located at the Health and Physical Education Building I, Room 110F, or can be reached at (956) 665-2230.

Faculty Artist Series

During the school year, the Department of Music presents a series of performances by faculty members in addition to student recitals. Included in these recitals are vocal and instrumental performances. For more information, call (956) 665-3471 or visit the office at Fine Arts Complex, Room 132.

Musical Performances

Performing for students and the public are the University Choir, Men's and Women's Choruses, the Concert Band, the Jazz Ensemble, the Salsa Band, the Brass Ensemble, the Woodwind Ensemble, the Trombone Ensemble, the Guitar Ensemble, the South Texas Chamber Orchestra, the UTPA Mariachi and the Valley Symphony Orchestra and Chorale. For more information, call (956) 665-3471.

University Theatre Productions

The University Theatre Productions (UTP) produces seven to 10 full-length plays each year, including two to three plays in every other summer during Pan American Summer Stock (PASS) (odd numbers years) and four to five plays in the fall and spring. The community can purchase individual tickets to each performance. Season subscriptions are also available. Producing groups within the UTP include The Latino Theatre Initiative and Theatre for Young Audiences.

University ID cardholders are permitted two free admissions per ID as space permits. Actors include University students, faculty and staff, along with community members. The University Theatre Productions 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 theatre classes are frequently offered. Student activity fees, donations, grants and other sources provide funding for University Theatre Productions. The Albert L Jeffers Theatre and the Studio Theatre are located in the Arts and Humanities Building (ARHU). The Box Office is located on the first floor of ARHU and can be reached at (956) 665-3581. Information on current productions can be found in the UTP website www.utpa.edu/Theatre

UNDERGRADUATE ACADEMIC PROGRAMS

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.

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, 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 interrelationships 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

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.

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 UT 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.

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.	

Special Considerations For Transfer Students

Transfer students with 15 or more hours but without the core curriculum-approved courses, or courses deemed comparable by the University, 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 UT Pan American.

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.

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	Rhetoric and Composition I
or	
ENG 1387	Rhetoric and Composition (Honors Plan)
And complete one of the following:	
ENG 1302	Rhetoric and Composition II
or	
ENG 1388	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	
CHEM 1101	Laboratory
CHEM 1302	General Chemistry II
and	
CHEM 1102	Laboratory
or	
CHEM 1303	Chemistry in Society I
and	
CHEM 1103	Chemistry in Society Lab I
CHEM 1304	Chemistry in Society II
and	

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 1440, MATH 1450, MATH 1460, but excluding EMAT 2306 and EMAT 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
MUS 1309 World Music

LAMS 2301 Inter-American Studies
COMM 1301 Cinema Appreciation

Group 3. Philosophy and Modern or Classical Language Literature 3 hours

PHIL 1305 Critical Thinking
PHIL 1310 Introduction to Philosophy
PHIL 2330 Introduction to Ethics
PHIL 2350 Social Philosophy
PHIL 2370 Introduction to Asian Philosophy
PHIL 2380 Introduction to Latin American Philosophy
PHIL 2390 Professional Ethics
PHIL 2395 Environmental 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
HIST 2314 American Heritage II
 or
HIST 2387 American Heritage I (Honors Plan)
 and
HIST 2388 American Heritage II (Honors Plan)

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 Macroeconomics

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

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) Or equivalent introductory computer literacy course (such as CIS 1301, CSCI 1370/1380, and CMPE 1370)

RAFAEL A. "FELO" AND CARMEN GUERRA HONORS PROGRAM

The Guerra Honors Program serves academically talented and ambitious students who value intellectual growth and want to make the most of their undergraduate education. The program provides students a flexible, challenging, and innovative curriculum that helps them develop academically, personally, and professionally.

Students of all majors at UTPA may join the Guerra Honors Program. In fact, no one particular academic major or career goal is more suited to the program than any other. Membership in the Guerra Honors Program is a privilege and a commitment, but previous graduates of the program have found it a tremendous source of enrichment as they move through and beyond UTPA into various avenues of success. The Guerra Honors Program is always interested in students who wish to think big when it comes to their academic and

professional ambitions.

Admission Eligibility Requirements

See page 19 for eligibility and admission requirements.

COLLEGE OF ARTS AND HUMANITIES

Dr. Dahlia Guerra, Dean

Arts and Humanities Building, Room 334
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-2175
Fax: (956) 665-2177
E-mail: guerrad@utpa.edu
Web: www.utpa.edu/colleges/coah

General Overview

The College of Arts and Humanities at UT Pan American develops artistic ideas, studies cultures, and cultivates communication skills. It offers a diverse student population programs in Art, Communication, English, History and Philosophy, Modern Languages and Literature, and Music and Dance.

The college provides its students a myriad of opportunities including participating in seminars, special projects, and internships. In addition, the College of Arts and Humanities offers students the chance to showcase their talents in musical concerts and plays, student media, or art exhibits. The arts and humanities are also an excellent pathway to graduate study in many fields. The College also delivers scholarly and creative studies that engage its students and faculty, and benefit the surrounding community.

The goals of the college are based upon the recognition that a liberal arts education is the foundation for all University studies and we present a wide range of programs to promote the arts, the humanities, and the exchange of ideas. The College of Arts and Humanities provides the foundation, knowledge, and skills for individuals to act thoughtfully and ethically, in both public and private roles.

Academic Programs

The college offers a wide range of majors, minors and elementary and secondary teacher certification, from art to English, for students interested in pursuing a liberal arts education. Some of the areas of study include Art, Art History, English, English as Second Language, Communication Studies, Mass Communication (Journalism, Advertising, Public Relations), History, Mexican-American Studies, Women's Studies, Religious Studies, Medical Spanish, French, Spanish, Philosophy, Theatre/TV/Film, Music, and Dance.

Mission

The COAH recognizes that its greatest strength and highest

calling is the delivery of quality academic programs in formats that are accessible to students from all cultural and socioeconomic backgrounds.

Quality instruction, research, creative activity and service in the arts and humanities enrich our society, stimulate entrepreneurial and economic growth, contribute to the emerging creative class, and prepare tomorrow's leaders with the cultural, critical, and ethical frameworks needed to face our most pressing challenges.

INTERDISCIPLINARY MINORS

Minor in Gender and Women's Studies

Gender and Women's Studies is a trans-disciplinary program taught by the faculty of departments across the university. The minor in gender and women's studies provides a strong interdisciplinary and global education that helps students prepare for a variety of careers and that enhances a variety of majors. Equality and social justice in the workplace and in our increasingly globally connected communities has become increasingly central in our society regardless of what career path we might find ourselves in. Being able to demonstrate an interest and knowledge in this area along with a major in engineering, business, science, mathematics, law, health, education, global security, the social sciences, or the humanities will enhance the effectiveness with which students are able to communicate, serve, and succeed.

A minor in Gender and Women's studies requires 18 semester hours of coursework.

Required Course 3hours:
PHIL 3376/W MST 3376

Gender and Women's Studies Electives 15 hours

Five electives from any course that the Director of Gender and Women's Studies determines to have more than 50% of content related to Gender and Women's Studies.

Certificate in Gender and Women Studies

Gender and Women's Studies also offers a 9 hour certificate. The certificate does not require additional courses to be taken beyond a major. The certificate requires taking 9 hours of courses within a student's major that the Director of Gender and Women's Studies determines to have more than 50% of content related to Gender and Women's Studies.

ART

Susan Fitzsimmons, Professor
Art Department Chair

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Full-time Faculty

Bradley, Robert, Assistant Professor
Clark, Douglas, Assistant Professor
De Souza, Carlos, Assistant Professor
Farris, Marcus, Assistant Professor
Field, Philip S., Professor
Gilbert, Robert, Associate Professor
Hernandez, Leila, Associate Professor
Hyslin, Richard P., Professor
Lyles, Donald, Assistant Professor
Macias, Maria E., Assistant Professor
Martinez, David, Associate Professor
Pace, Lorenzo, Professor
Phillips, Richard E., Professor
Sanders, Karen, Associate Professor
Santiago, Reynaldo I Professor
Sweigart, Donna, Assistant Professor
Valadez, Paul, Lecturer

Emeritus Professors

Manuella, Frank
Martin, Wilbert Raymond
Moyer, Nancy

General Overview Mission

It is the mission of the department to develop individual directions among its students. Personal expression 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
- Dedication to conscientious artistic exploration and self development of creative potential

General Departmental Requirements

tudents 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 hrs.

Core Courses 27 hrs.

ART	1311	Drawing I
ART	1334	Design I
ART	2351	Ancient Art of the West
ART	2352	Art of the West, 1000-1840 A.D.
ART	3339	Professional Photographic Documentation
ART	3350	Research Methods in Art and Architectural History
ART	3396	Contemporary Art
ART	4359	Seminar on Topics in Art History (Capstone Course)

Choose one of the following:

ART	1332	Typography
ART	1333	Digital Media
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

Advanced Art History Courses 24 hrs.

Choose any eight of the following:

ART	3351	Pre-Hispanic Mesoamerican Art and Architecture
ART	3355	History of Spanish Architecture, 711-1825 A.D.
ART	3357	Mexican and Caribbean Viceregal Art and Architecture
ART	3358	Andean Pre-Hispanic Art and Architecture
ART	3359	South American Viceregal Art and Architecture
ART	4350	Modern Mexican Art, 1785-1940
ART	4352	Modern Mexican Art since 1940
ART	4355	Modern Art of South America and the Caribbean
ART	4356	History of Photography
ART	4357	Art and Architecture of Asia, Africa and Oceania

- ART 4358** Latino Art
ART 4359 Seminar on Topics in Art History (may be repeated once if the topics are substantially different)

Designated Electives 9 hrs.

Choose nine hours from any other advanced art department courses, provided that their prerequisite courses have already been completed with grades of C.

Approved Minor 18 hrs.

18 hours of which at least 6 must be advanced.

TOTAL 121 hrs.

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 adviser 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 3.102. Students may call the office at (956) 665-3420 or log on to the website for more information at www.utpa.edu/colleges/coe/studentservices.

Core Curriculum Requirements 43 hrs.

Core Courses 27 hrs.

- ART 1311** Drawing I
ART 1334 Design I
ART 1335 Design II
ART 2351 Arts of the West to 1400 A.D.
ART 2352 Arts of the West since 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 4383 Art Curriculum

Designated Electives 30 hrs.

Choose four of the following seven courses:

- ART 1332** Typography
ART 1333 Digital Media
ART 2303 Jewelry/Metalworking I
ART 2321 Painting I
ART 2341 Sculpture I
ART 2361 Printmaking I
ART 2371 Ceramics I

In addition, eighteen credit hours from the following:

Choose any two upper division studio art courses.
Choose any two upper division art history courses.
Choose any two upper division courses in art or university-wide.

Advanced Education Hours 21 hrs.

The professional education courses for all-level certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

TOTAL 121 hrs.

BACHELOR OF FINE ARTS WITH A MAJOR IN ART BFA STUDIO

Core Curriculum Requirements 43 hrs.

Core Courses 27 hours

- ART 1311** Drawing I
ART 1334 Design I
ART 1335 Design II
ART 2351 Arts of the West to 1400 A.D.
ART 2352 Arts of the West since 1400 A.D.
ART 3310 Drawing II
ART 3311 Drawing III
ART 4339 Portfolio
ART 4393 BFA Senior Exhibit –this is the capstone course

Designated Lower Division Electives.

Choose four of the following seven courses: 12 hours

- ART 1332** Typography
ART 1333 Digital Media
ART 2303 Jewelry/Metalworking I
ART 2321 Painting I
ART 2341 Sculpture I
ART 2361 Printmaking I
ART 2371 Ceramics I

Designated Art History Electives 9 hrs.

Choose any three upper-division Art History courses.

Art Studio Advanced Electives 24hrs.

Choose any eight upper-division art studio courses from the following: ART 3302, ART 3303, ART 3320, ART 3321, ART 3330, ART 3332, ART 3334, ART 3341, ART 3361, ART 3362, ART 3371, ART 3372, ART 4303, ART 4311, ART 4321, ART 4337, ART 4341, ART 4361, ART 4371, ART 4388.

Advanced University-wide Electives 6 hrs.

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 hrs.

BFA STUDIO, CONCENTRATION IN GRAPHIC DESIGN

Core Curriculum Requirements 43 hrs.

Core Courses 66 hrs.

ART	1311	Drawing I
ART	1332	Typography
ART	1334	Design I
ART	1335	Design II
ART	2321	Painting I
ART	2351	Arts of the West to 1400 A.D.
ART	2352	ARTS of the West since 1400 A.D.
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	3396	Contemporary Art
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 Electives 9 hrs.

Select one lower division studio art course and two advanced art history courses.

Advanced Electives 3 hrs.

Select three 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 hrs.

MINOR IN ART

Eighteen hours in art, of which nine hours must be advanced.

General Art Minor 18 hrs.

Required courses 6 hrs.

ART	1311	Drawing I
ART	1334	Design I

Choose one course from: 3 hrs.

ART	1332	Typography
ART	1333	Digital Media
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

Designated Electives 9 hrs.

Nine hours of upper-division art history or studio.

Art Minor in Art History 18 hrs.

ART	2351	Arts of the West to 1400 A.D
ART	2352	Art of the West, 1000-1840 Arts of the West since 1400 A.D.
ART	3396	Contemporary Art

Three advanced art history courses.

Art Minor in Graphic Design 18 hrs.

ART	1311	Drawing I
ART	1332	Typography
ART	1334	Design I
ART	3333	Design and Production
ART	3335	Communication Design I
ART	4333	Graphic Design I

Course Descriptions

A listing of courses offered by the Department of Art can be found on pg. 131.

COMMUNICATION

Mr. Thomas Grabowski, Chair

Department Chair

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Agbese, Aje-Ori, Assistant Professor
Carren, David B., Associate Professor
Cerroni, Alyssa, Lecturer
Chang, Yanrong, Associate Professor
Cunningham, Cory, Assistant Professor
Garcia, Elizabeth, Lecturer
Gise, Lawrence, Lecturer
Grabowski, Thomas E., Associate Professor
Lemanski, Jennifer, Associate Professor
Lim, Young Joon, Assistant Professor
Mann, Fred, Lecturer
McQuillen, Jeffrey, Associate Professor
Mikolasky, Trey, Assistant Professor
Pazdera, Donna, Lecturer
Saavedra, Dora E., Associate Professor
Saxton Jennifer, Assistant Professor
Selber, Gregory, Associate Professor
Selber, Kimberly, Associate Professor
Spinetta, Christine, Assistant Professor
Taylor, Nick, Lecturer
Warren, Brian, Assistant Professor
Wiley, Eric, Professor
Zhang, Cui, Assistant Professor

Emeritus Professor
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 chapters of the American Advertising Federation, Public Relations Student Society of America, the National Association of Hispanic Journalists and Alpha Psi Omega. 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 Mass Communication
- Option in Theatre/TV/Film

Master of Arts in Communication

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 mass communication, 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 one area from either the communication studies, mass communication or theatre/TV/film program areas. Theatre majors must take three one-hour communication practicum courses. Within each concentration area are specialized career tracks. The student must work closely with a curriculum adviser in selecting an appropriate career track for the student's degree plan.

Career Tracks (non-certification) available under each option area are as follows:

Mass Communication option

Advertising/Public Relations track
Broadcast Journalism track
Print Journalism track

Communication Studies option

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 Communication Studies area offers students degree plans in Communication Studies or Teacher Certification to teach Speech Communication. All courses in the Communication Studies major must be completed with a grade of C or better.

Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum requirements section of this catalog on pg. 97.

Core Courses 24 hrs.

Communication

- COMM 1302 Introduction to Communication
- COMM 2315 Interpersonal Communication
- COMM 2316 Small Group Communication
- COMM 3314 Persuasive Communication
- COMM 3316 Intercultural Communication
- COMM 3331 Interviewing
- COMM 3333 Communication Theory
- COMM 3350 Research in Communication

An additional three-hour advanced course (3000-4000 level) is required.

Communication Studies Electives 15 hrs. adv.

Approved Electives or Minor 18 hrs./9 adv.

Other Electives 20 hrs./13-17 adv.

Recommended: COMM 4103

COMM 4337/4624 Internship
Lang 13_

Lang 13_

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 40 hours:

- COMM 1302 Introduction to Communication
- COMM 1315 Mass Communication and Society
- COMM 2313 Readings in Dramatic Literature
- COMM 2315 Interpersonal Communication
- COMM 2316 Small Group Communication
- COMM 2317 Argumentation and Debate
- COMM 3308 Creative Drama
- COMM 3314 Persuasive Communication
- COMM 3316 Intercultural Communication
- COMM 3317 Communication for the Classroom Teacher
- COMM 3333 Communication Theory
- 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 adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/student-services.

The professional education courses for high school (8-12) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

In addition students must complete 11 hours of approved electives (8 advanced) and 6 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 adviser for guidance with course selection.

Option in Mass Communication

Students in the Mass Communication option can specialize in print and/or broadcast journalism, advertising, or public relations. Students in the print journalism concentration spend about three-fourths of their time on general background courses. The remaining one-fourth involves the development of print journalism skills that relate to student's general background knowledge. Students in broadcast journalism, public relations, or advertising invest more time in communication courses geared to their specific profession. All courses in the Mass Communication major must be completed with a grade of C or better

To enroll in upper-level mass communication courses, a student must have a University GPA of 2.25. Students who do not fulfill this requirement will be dropped from mass communication 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, mass communication students must complete COMM 1302, COMM 1303 or COMM 3313.

Core Curriculum Requirements 43 hrs.

Core Courses 24 hrs.

Mass Communication students must take the following 24 hours of core courses:

COMM 1315	Mass Communication and Society
COMM 2304	Television Production
COMM 3303	Writing for the Mass Media
COMM 3333	Communication Theory
COMM 3349	Multimedia Storytelling
COMM 3350	Research in Communication
COMM 4313	Media Law and Ethics
COMM 4332	Visual Communication

Concentration Requirements

Advertising/Public Relations Track 21 hrs.

COMM 3304	Advertising
COMM 4321	Public Relations
COMM 4334	Communication Campaigns
COMM 4335	Creative Strategies

Choose Cluster A (Public Relations) or B (Advertising)

A.	
COMM 3327	Reporting I
COMM 3305	Copy Editing
COMM 4322	Public Relations Writing

B.	
COMM 3348	Copy Writing
COMM 4310	Media Planning
COMM 3353	Broadcast Advertising Production

Broadcast Track 22 hrs.

COMM 2310	Video Editing I
COMM 3339	Broadcast Audio Production
COMM 3351	Broadcast News Writing
COMM 3352	Television News Production and Reporting
COMM 4312	Video Editing II
COMM 3353	Broadcast Advertising Production

Take ONE of the following:

COMM 3338	BRONC Radio/TV
COMM 4314	Advanced TV Production

Print Track 24 hrs.

COMM 3305	Copy Editing
COMM 3306	Feature Writing
COMM 3327	Reporting I
COMM 3329	Reporting II
COMM 4326	Photojournalism

Nine hours advanced mass communication electives

Other Requirements for students in the print track concentration

Students are encouraged to take coursework outside the mass communication 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. For degree completion, students must have a grade of at least C in each Mass Communication course.

Other Electives 8-17 hrs.

Journalism with Teacher Certification (8-12) 39 hrs.

Students seeking state certification in journalism will complete the following 36 hours:

COMM 1315	Mass Communication and Society
COMM 2304	Television Production
COMM 3303	Writing for the Mass Media
COMM 3304	Advertising
COMM 3305	Copy Editing
COMM 3306	Feature Writing
COMM 3327	Reporting I
COMM 3333	Communication Theory
COMM 3349	Multimedia Storytelling
COMM 3350	Research in Communication
COMM 4313	Media Law and Ethics
COMM 4326	Photojournalism
COMM 4332	Visual Communication

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 adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/studentservices.

The professional education courses for high school (8-12) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

Students must also complete 14 hours of approved electives and 3 hours of electives.

MINOR IN MASS COMMUNICATION

Applicants must complete 18 hours of mass communication 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 workforce 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 lead to certification.

All courses in the TTF major must be completed with a grade of C or better.

Curriculum Tracks in Theatre/TV/Film

Core Curriculum Requirements 43 hrs.

Complete the core curriculum requirements as shown on pg. 97 of this catalog EXCEPT as shown below:

It is recommended that students select

ENG 2313/COMM 2312 as one of the courses.

In addition to completing the 43 hours of the University core curriculum requirements, theatre/TV/film students must complete COMM 1302, COMM 1303 or COMM 3313.

Core Courses For TV/Film Track 21 hrs. (12 adv.)

- COMM 1305 Acting I
- COMM 2304 Television Production
- COMM 2310 Video and Film Editing I
- COMM 4301 Directing I
- COMM 4302 Directing II
- COMM 4312 Video and Film Editing II
- COMM 4314 Advanced TV/Film Production

Technical Electives 27 hrs./24 adv.

See individual requirements below.

Other Electives 18 hrs./15 adv.

Free Electives 9 hrs.

TOTAL 120 hrs.

Television, Film Track

Technical Electives 27 hrs./24 adv.

- COMM 1312 Lighting and Sound Technology
- COMM 3302 Voice and Diction
- COMM 3309 Scene Design

or

- COMM 3312 Costume Design
- COMM 3310 Lighting for the Stage, Film, and TV
- COMM 3324 Location Film and Video Production
- COMM 3325 Motion Picture History and Significance
- COMM 4101 Practicum-Theatre/TV/Film(must be taken three times)
- COMM 4624 Professional Internship

or

- COMM 4616 Summer Film and Television Workshop

Other Electives 18 hrs./15 adv.

The following is recommended:

- COMM 4304 Scriptwriting for Stage and Screen
- COMM 4315 History of Theatre I
- COMM 4316 History of Theatre II

Core Courses For Design and Performance Tracks 18 hrs. (12 adv.)

- COMM 1305 Acting I
- COMM 2304 Television Production
- COMM 4301 Directing I
- COMM 4302 Directing II
- COMM 4314 Advanced TV/Film Production
- COMM 4315 History of Theatre I

Technical Electives 30 hrs./21 adv.

See individual requirements below.

Other Electives	12 hrs./9 adv.
Free Electives	15 hrs./9 adv.
TOTAL	120 hrs.

Design Track

Technical Electives	30 hrs./21 adv.
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COMM 1311	Stagecraft
COMM 1312	Lighting and Sound Technology
COMM 2320	Costume Technology
COMM 3309	Scene Design
COMM 3310	Lighting for the Stage, Film, and TV
COMM 3311	Contemporary Drama
or	
COMM 3323	World Drama
COMM 3312	Costume Design
COMM 3324	Location Film and Video Production
COMM 4101	Practicum-Theatre/TV/Film (must be taken three times)
COMM 4316	History of the Theatre II

Other Electives	12 hrs.
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The following are recommended:

COMM 2321	Drawing and Rendering for the Theatre
COMM 2319	Makeup
or	
COMM 4317	Children's Theatre
COMM 4624	Professional Internship
or	
COMM 4615	Summer Theatre Workshop

Performance Track

Technical Electives	30 hrs./24 adv.
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COMM 2306	Acting II
COMM 2319	Makeup
COMM 3302	Voice and Diction
COMM 3311	Contemporary Drama
COMM 3323	World Drama
COMM 3341	Acting III
COMM 3342	Acting IV
or	
COMM 4319	Problems in Acting
COMM 4101	Practicum-Theatre/TV/Film(must be taken three times)
COMM 4316	History of Theatre II
COMM 4318	Theory and Styles of Acting

Other Electives	12 hrs. advanced
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The following are recommended:

COMM 4304	Scriptwriting for Stage and Screen
COMM 4615	Summer Theatre Workshop
or	
COMM 4624	Professional Internship
COMM 4317	Children's Theatre Workshop
or	
COMM 4303	Special Topics

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 adviser 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) 665-3420 or visit the website for more information at <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for all-level certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

Core Courses	18 hrs./12 adv.
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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

Technical Electives	19 hrs./15 adv.
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COMM 2101	Practicum-Theatre/TV/Film
COMM 2320	Costume Technology
COMM 3309	Scene Design
or	
COMM 3312	Costume Design
COMM 3311	Contemporary Drama
or	
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

Additional Electives	18 hrs./3 adv.
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TOTAL	120 hrs.
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MINOR IN THEATRE/TV/FILM

- 1. The Theatre/Television/Film Minor will require a student to take a total of 18 hours in TTF, 9 of which must be advanced TTF classes.
- 2. There is a core of 3 classes that must be completed consisting of COMM 1305, Acting I; COMM 2312, Theatre Appreciation and COMM 4301 Directing I.
- 3. The other 9 hours (at least 6 hours of which must be advanced TTF classes) may be taken from ANY of the TTF classes (coded as TH in the catalog) with the exception of COMM 2101 Practicum and 4101 Practicum.

All classes in the theatre minor must be completed with a grade of "C" or higher.

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:

A. Required Courses 12 hrs.

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. Elective Courses 6 hrs.

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	U.S. and Other World Cultures
ANTH	3380	Social Anthropology

Communication

COMM	2315	Interpersonal Communication
COMM	2316	Small Group Communication
COMM	2317	Argumentation and Debate
COMM	3314	Persuasive Communication
COMM	3316	Intercultural Communication
COMM	3332	Organizational Communication
COMM	4321	Public Relations

Management

MGMT	3335	Communication Policy and Strategy
MGMT	4361	Organizational Behavior
MGMT	4363	Production Management

Philosophy

PHIL	1305	Critical Thinking
PHIL	2350	Introduction to Social and Political 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 HISPANIC MEDIA STUDIES

The minor in Hispanic Media Studies requires 18 hours in the following:

COMM	3336	Media, Race, and Ethnicity
COMM	3337	Global Communication
SPAN	3343	Spanish Language Media Studies
SPAN	3334	Business Spanish
	or	
SPAN	4348	Sociolinguistics and Latino Health
	or	
SPAN	4335	Spanish English Translation
COMM	4624	Internship-Communication
	or	

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

		Literature 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

or

Language Studies: Students can choose from the following list of courses:

6 hours of

SPAN	3303	Advanced Spanish Composition
SPAN	3304	Advanced Spanish Composition II
SPAN	3306	Spanish Phonetics and Phonology
SPAN	3319	Intro to Hispanic Linguistics
		or
ENG	3319	Descriptive Linguistics
ENG	3321	Language and Culture
SPAN	3330	Advanced Spanish Grammar
SPAN	4316	Problems Related to Language
		or
ENG	4326	Language Acquisition
SPAN	4331	Problems in Grammar, Dialects and Performance
		or
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 pg. 136.

ENGLISH

Dr. Pamela Anderson-Mejias, Chair

Department Chair

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www.utpa.edu/dept/english

Full-Time Faculty

Anderson-Mejias, Pamela, Professor
Anshen, David, Associate Professor
Becker-Chambless, Amy, Lecturer
Belau, Linda, Professor
Braithwaite, Jean, Associate Professor
Brown, Danika, Associate Professor
Broz, William, Associate Professor
Cameron, Ed, Associate Professor
Charlton, Colin, Associate Professor
Charlton, Jonikka, Associate Professor
Christensen, Matt, Associate Professor
Cole, Deborah, Associate Professor
Cummins, Amy, Assistant Professor
Daniel, Clay L., Associate Professor
Eom, Min-hee, Associate Professor
Escamilla, Marianita, Lecturer
Flores, Shoney, Lecturer
Francis, Theron, Lecturer
Marlene Galván, Lecturer
Goren, Allan, Lecturer
Hamilton, Lee, Professor
Haraway, Claude, Lecturer
Hollinger, Andrew, Lecturer
Johnson, Robert, Professor
Keller, Christopher, Associate Professor
Lang, Yong, Professor
LaPrade, Douglas E., Professor
McDonie, R. Jacob, Assistant Professor
McMahon, Marci, Assistant Professor
Mery, Adelle, Lecturer
Miles, Caroline S., Associate Professor
Mitchell, Rebecca, Associate Professor
Newman, Beatrice, Professor
Newman, Donald, Professor
Noe, Mark, Associate Professor
Nuss, Melynda, Associate Professor
Regine Pellicer, Lecturer
Pérez, Emmy, Associate Professor
Reed, Michael D., Professor
Schneider, Gary, Associate Professor
Schneider, Steven P., Professor

Skinner, José, Associate Professor
Thomson, Shawn, Associate Professor
Villarrreal, Evert, Lecturer
Williamson, Eric, Professor
Zwerling, Philip, Associate 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. The English department houses courses for the minors in Film Studies, Mexican American Studies, and Women’s Studies.

In addition, the department offers graduate programs leading to the Master of Arts in English (with two tracks, one in literature and cultural studies and the second in 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. The department also houses a Certificate program of 12 graduate hours in Secondary English Language Arts (SELA). 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 enhance literary and language aptitudes of their own.

For 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 as well as critical thinking and problem solving.

Major in English

The Bachelor of Arts degree with a major in English requires 39 semester hours of English, 36 hours of which 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 that is literature-based.

All students must complete nine hours of English credits — including 1301, 1302 and one 2000-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 adviser 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, 3311, 3312, 3313, 3315, 3316, 3317, 3320 (when special topic is literary), 3322, 3323, 3324, 3325, 3331, 3332, 3342, 3343, 3344, 3350, 3351, 3369, 3398, 3399, 4301, 4306, 4309, 4310, 4311, 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), 3320 (when topic is writing), 3326, 3333, 3338, 3341, 3342, 4307, 4322, 4323, 4324, 4325, 4330, and 4343.

Offerings in Creative Writing:
ENG 3334, 3336, 3337, 4334, 4335, 4336, 4337 and 4340.

Offerings in Linguistics and Language:
ENG 3300, 3319, 3320 (when topic is linguistic), 3321, 3330, 3341, 4302, 4308, 4314, 4321, 4326, and 4331.

Offerings in Applied Linguistics:
ENG 3321, 4326 and 4328.

Offerings in Cultural Studies:
ENG 3344, 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*, 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.

Course Offerings

The English department website includes a general rotation of graduate courses offered each semester. Please see this for planning your program in consultation with an adviser.

Degree Requirements

Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum requirements section of this catalog on pg. 97.

Required Courses 39 hrs.

Area A: Sophomore Literature (Survey Courses) - 3 credits to be chosen from the following:

2300, 2303, 2305, 2307, 2308, 2313, 2387, 2388

Area B: Literature Survey - 6 credits to be chosen from the following: 3312, 3313, 3331, 3332

Area C: Period/Genre/Theme/Single Author Courses - 3 credits to be chosen from the following: 3301, 3304, 3305, 3306, 3307, 3309, 3310, 3311, 3314, 3315, 3316, 3317, 3322, 3324, 3351, 3369 (voted dept 3/7), 3398, 3399, 4301, 4309, 4310, 4311, 4312, 4317, 4319, 4390

Area D: World/Multicultural Literature - 3 credits to be chosen from the following: 3321, 3323, 3342, 3343, 3344 (voted 3/7), 3350, 4313, 4320 (voted 3/7), 4316

Area E: Writing - 6 credits to be chosen from the following: 3326, 3333, 3334, 3335, 3336, 3337, 3338, 4325, 4334, 4335, 4336, 4337, and 4340

Area F: English Language/Linguistics - 3 credits to be chosen from the following: 3300, 3319, 3330

Area G: Literary, Rhetorical, or Linguistic Theory Survey - 3 credits to be chosen from the following: 4302, 4305, and 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 adviser.

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. These nine hours are in addition to the required 39 hours in the major.

Emphasis Requirements

Literature Emphasis
English 3312, 3313, 3331, 3332 and 3350

Writing and Discourse Studies
English 3326, 4323 and 4324

Creative Writing
English 3334, 3337, 4334, 4335, 4336, 4337, and 4340

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 adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/studentservices.

The professional education courses for middle school (4-8) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, and EDUC 4611.

A. Core Curriculum Requirements 43 hrs.

B. English Major 24 hrs.

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 hrs.

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 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC	4303	Teaching Special Populations Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

E. Miscellaneous Requirements 18 hrs.

PSY	4319	Cognitive Processes
	or	
SOCI	4360	Sociology of Education
COMM	3308	Creative Drama
COMM	1313	Fundamentals of Speech Communication
	or	
COMM	3317	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 adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/studentservices.

The professional education courses for high school (8-12) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

A. Core Curriculum Requirements 43 hrs.

B. English Major 30 hrs.
in addition to Core Courses

Any 3 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 hrs.
Can include core courses.

D. Professional Development 18 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

E. Miscellaneous Requirements 12 hrs.
ENG 3320 or COMM 3324 or ART 4337

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 adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/student-services.

The professional education courses for high school (8-12) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

A. Core Curriculum Requirements 43 hrs.

B. English Major 27 hrs.
in addition to core

Any 3 of the following surveys:

ENG	3312	Survey of American Literature and/or
ENG	3313	Survey of American Literature and/or
ENG	3331	Survey of English Literature and/or
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 as a Second Language
ENG	33xx/43xx	Any Advanced English (ESL course recommended)

C. Choice of Minor (foreign language recommended) 18 hrs.

D. Professional Development Hours 18 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom

EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

E. Miscellaneous Requirements 15 hrs.

PSY	4319	Cognitive Processes
	or	
SOCI	4360	Sociology of Education

ENG 3320 or COMM 3324 or ART 4337

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 a C or better and 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 adviser 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 ENG 4318 or ENG 4325. Candidates should check the Department of English website for links to updates on TExES information.

Minor in English

Eighteen hours of English, six hours of which must be advanced.

Course Descriptions

A listing of courses offered by the Department of English can be found on pg. 146.

HISTORY AND PHILOSOPHY

Dr. Gregory Gilson,

Department Chair
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1201 W. University Drive
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General Overview

The Department of History and Philosophy promotes excellence in teaching, scholarship, and service to graduate and undergraduate students, the university campus, the Rio Grande Valley community, and the academic professions. The Department offers BA degree programs in history, social studies, Mexican American studies, and philosophy, as well as minors in history, Mexican American studies, philosophy, gender and women’s studies, and religious studies.

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 about the graduate programs is available in the graduate catalog. The curricula offered in our various programs form the core of a well-rounded Liberal Arts education. Lower divisional course offerings promote the basic skills of critical thinking, communication, teamwork, and social and personal responsibility. Upper divisional coursework fosters the educational, ethical, and leadership skills which enable students to thrive in a wide variety of professions including teaching, business, public advocacy, law, public history, and civil service.

Finally our undergraduate programs prepare students for graduate study in a variety of academic disciplines. In addition, the Department is committed to scholarly research, as faculty members and students undertake significant research projects to advance knowledge and contribute to the constant reinterpretation of the human experience. The Department strives to serve the broader professional academic community as well as the local community through scholarly publications and presentations, classroom based service and experiential learning initiatives, and community engaged service and research.

HISTORY

Full-Time Faculty

Adair, Penelope A., Associate Professor
Andrews, Norwood, Lecturer
Avila, Rolando, Lecturer
Balci, Tamer, Associate Professor
Birk, Megan, Assistant Professor
Campney, Brent, Assistant Professor
Coronado, Juan, Lecturer
De La Trinidad, Maritza, Assistant Professor
English, Linda, Assistant Professor
Faubion, Michael L., Associate Professor
Grant, Ken, Lecturer
Hay, Amy, Associate Professor
Hernandez, Sonia, Associate Professor
Hoppens, Robert, Assistant Professor
Knight, Dan, Associate Professor
Levinson, Irving, Associate Professor
Lopez, Alfonso, Lecturer
Lucero, Bonnie, Assistant Professor
Miller, Christopher L., Associate Professor
Ridge, Michael, Lecturer
Skowronek, Russell, Professor
Starling, Jamie, Assistant Professor
Waite, Charles, Associate Professor
Wallace, Ned, Lecturer
Weaver, Michael K., Associate Professor
Wirts, Kristine, Associate Professor

Emeritus Professors

Miller, Hubert

General Overview

Undergraduate students majoring and minoring in History are exposed to the richness, diversity, and complexities of human history during various periods and numerous geographic regions. Our unique location on the border provides a stimulating backdrop to the study of a diversity of peoples, ideas, and cultures. Courses offered by the faculty focus on U.S., Mexican, Borderlands, Texas, British, European, Latin American, Middle Eastern, and Asian history. Our program reinforces the general education objectives of critical thinking, reading, writing, and communication skills; however, our History courses also engage students in the historian’s craft by requiring them to analyze primary and secondary sources, contextualize, and write historically. We believe that the study of history enables students to acquire broadly informed perspectives and develop analytical and communication skills that will serve them outside the classroom and beyond their college years. A further program mission is scholarly research, as faculty members undertake significant research projects to advance historical knowledge and contribute to the constant

reinterpretation of the historical experience.

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.

Beginning history majors are urged to take Civilization through the Centuries, American Heritage, and Historiography and Methodology early in their academic careers. These courses prepare students for upper division required and elective chronologically and geographically specific courses. In their senior year, history majors participate in the capstone experience Senior Research Seminar. The department also welcomes non-history majors who may wish to take courses in Mexican American heritage, Texas History, and a wide assortment of courses in Latin American, American and European history.

Degree Requirements

MAJOR IN HISTORY

Core Curriculum Requirements 43 hrs.

Complete the core curriculum requirements as shown on pg. 97 of this catalog.

Core Courses 12 hrs.

HIST	2331	Civilization through the Centuries I
HIST	2332	Civilization through the Centuries II
HIST	3332	Historiography and Methods
HIST	4399	Senior Research Seminar

Designated Electives 30 hrs.

U.S. History Electives (6 hours at least 3 hours advanced)

- European History (3 advanced hours)
- World History (3 advanced hours)
- General History elective (18 hours at least 15 advanced)

35 hours free electives/minor

TOTAL 120 hrs.

MINOR IN HISTORY

Core Courses 9 hrs.

HIST	2313	American Heritage I*
HIST	2314	American Heritage II*
HIST	2331	Civilization Through the Centuries I or
HIST	2332	Civilization Through the Centuries II

*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.

Course Descriptions

Complete course descriptions for History courses can be found on pg. 155.

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 7-12.

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 adviser 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) 665-3420 or visit the website for more information at <http://utpa.edu/colleges/coe/studentservices>.

The professional education courses for high school (8-12) certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

Core Curriculum Requirements 43 hrs.

Complete the core curriculum requirements as shown on pg. 97 of this catalog.

Social Studies Courses

Students take 21 hours of required social studies classes and

33 hours of designated social studies electives.

Required Courses

ANTH	3333	U.S. and Other World Cultures
ECON	2301	Principles of Macroeconomics
HIST	2331	World Civilizations I
HIST	2332	World Civilizations II
HIST	3303	Geography and Environment
HIST	3330	Texas History
HIST	3332	Historiography and Methods

Designated Electives

Advanced U.S. History to 1865: Select 6 hours from the following:

HIST	3304	Indians North America
HIST	3310	Atlantic World to 1763
HIST	3313	Atlantic America, 1763-1815
HIST	3324	Rise of the American Nation, 1814-1850
HIST	3343	Era of Sectional Conflict in U.S. History, 1848-1877
HIST	3350	American Military Experience
HIST	3353	History of the American Presidency, 1789-Present
HIST	3355	American Legal History
HIST	3360	History of American Family & Childhood
HIST	3367	U.S. as a World Power
HIST	3370	History of American Religious Traditions
HIST	3373	Mexican American Heritage
HIST	3381	History of American West
HIST	3385	Gender in the American West
HIST	4308	Conquistadors and Indian Chief of the Borderlands: A Comparative Colonialism of Northern New Spain
HIST	4322	Spanish Southwest to 1821
HIST	4325	The American Southwest After 1821
HIST	4333	Race & Ethnicity in American History
HIST	4334	History of the Old South
HIST	4343	Era of Sectional Conflict
HIST	4360	Public Health Americans
HIST	4363	U.S.-Latin American Relations
HIST	4397	Special Topics in U.S. History

Advanced U.S. History Since 1865: Select 6 hours from the following:

HIST	3304	Indians North America
HIST	3343	Era of Sectional Conflict in U.S. History, 1848-1877
HIST	3350	U.S. Military Experience
HIST	3353	History of the American Presidency, 1789-Present
HIST	3355	American Legal History
HIST	3360	History of American Family &

		Childhood
HIST	3367	U.S. as a World Power
HIST	3370	History of American Religious Traditions
HIST	3373	Mexican American Heritage
HIST	3381	History of American West
HIST	3385	Gender in the American West
HIST	4303	Emergence of Modern America, 1877-1917
HIST	4313	Twentieth Century America, 1917 to Present
HIST	4325	The American Southwest After 1821
HIST	4330	Black History and Thought Since 1863
HIST	4333	Race & Ethnicity in American History
HIST	4335	History of the New South Since 1877
HIST	4343	Era of Sectional Conflict, 1840-1877
HIST	4360	Public Health Americas
HIST	4361	Mexican American Civil Rights
HIST	4363	U.S.-Latin American Relations
HIST	4377	Chicano Movement
HIST	4381	History of the Cold War
HIST	4397	Special Topics in U.S. History

Advanced European History: Select 6 hours from the following:

HIST	3335	History of Spain
HIST	3340	Early Modern Europe
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 Reformation, 1300-1650
HIST	4371	Russia since 1905
HIST	4375	Absolutism and Enlightenment in Europe, 1650-1789
HIST	4376	Revolutionary Europe, 1780-1850
HIST	4381	History of the Cold War
HIST	4383	Europe's Age of Imperialism, 1850-1919
HIST	4393	Contemporary Europe, 1919 to Present
HIST	4396	Special Topics in European History

Advanced Latin American History: Select 3 hours from the following:

HIST	3331	Mexico from Pre-Conquest to the Present
HIST	3333	Colonial Mexico, Central and South America
HIST	3334	Pre-Conquest Mexico and Central America Prior to the Spanish Conquest
HIST	3377	Latin American Women in the Modern Era
HIST	3378	Women in Colonial Latin America

HIST	4308	Conquistadors and Indian Chief of the Borderlands: A Comparative Colonialism of Northern New Spain
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	4357	History of Mexican Cinema from 1896 to the Present
HIST	4360	Public Health Americas
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
HIST	4398	Special Topics in Latin American History

Advanced World History: Select 3 hours from the following:

HIST	3302	World History Studies
HIST	3305	Great Discoveries in Archeology
HIST	3310	Atlantic World to 1763
HIST	3333	Colonial Mexico, Central and South America
HIST	3345	Introduction to East Asian History I: to 1600
HIST	3346	Introduction to East Asian History II: 1600 to the Present
HIST	3380	Early Middle East History
HIST	3390	History of the Ottoman Empire
HIST	3391	History of Modern Japan
HIST	3392	History of Modern China
HIST	4307	Shipwrecks, Pirates, and the Sea: An Introduction to Maritime Archaeology and History
HIST	4322	The Spanish Southwest to 1821
HIST	4352	Brazil After Independence
HIST	4345	Mexico's First Central as an Independent Republic
HIST	4353	History of Mexican Culture
HIST	4354	Contemporary Mexico
HIST	4355	Spanish South America Since Independence
HIST	4360	Public Health Americas
HIST	4363	U.S.-Latin American Relations
HIST	4374	Caribbean and Central America
HIST	4380	Modern Middle East History
HIST	4381	History of the Cold War
HIST	4395	Special Topics in Historical Studies
HIST	4398	Special Topics in Latin American History

Advanced Political Science Requirement: 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

Advanced Economics Requirement: 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

** Students may choose only one of these options.

Students may not apply the same course in two elective areas.

High School (8-12) School Certification 21 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in EC-12 Classroom
EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
READ	4351	Learning through Literacy in the Content Areas
EDUC	4611	Student Teaching

Free Electives: 2 hrs.

Total Hours for students seeking certification 120 hrs.

*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 pg. 154.

PHILOSOPHY

Full-Time Faculty

Adams, Harry, Assistant Professor
Alessandri, Mariana, Assistant Professor
Anderson, Erik, Lecturer
Buckman, Kenneth L., Professor
Gerhart, Olga, Lecturer
Gilson, Gregory, Associate Professor
Harwood, William, Lecturer
Jaworski, Michael, Lecturer
Jones, Cynthia, Associate Professor
Leach, Stephen, Associate Professor
Paccacerqua, Cynthia, Assistant Professor
Pearson, Thomas D., Associate Professor
Saka, Paul, Associate Professor
Stehn, Alex, Assistant Professor
Wimberly, Cory, Associate Professor

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 Philosophy Program at UTPA seeks to develop in students, our colleagues, and the wider community an appreciation for the philosophically engaged life. The program contributes to the UTPA's undergraduate Core curriculum by offering courses which develop the capacities and habits of thought related to critical thinking, communication, teamwork, and social and personal responsibility. Advanced courses in philosophy form the core of a Liberal Arts education by systematically and critically addressing questions about the human condition, aesthetics, ethics, civic virtue, and the foundations of history, law, medicine, science, and mathematics. A further program mission is scholarly research, as faculty members and students undertake significant research projects to advance our understanding of these questions. Our program has particular strengths in Latin American philosophy, the philosophy of science, and applied ethics.

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. The philosophy program also welcomes students from other majors to enroll in upper division courses related to their specific course of study or general interest.

Degree Requirements

MAJOR IN PHILOSOPHY

Core Curriculum Requirements 43 hrs.

Complete the core curriculum requirements as shown on pg. 97 of this catalog.

Requirements for a Major in Philosophy:

36 total hours of philosophy, 24 of which must be upper division.

Required Courses

Logic: Select 3 semester hours from:

- PHIL 1321 Introduction to Formal Logic
- PHIL 3320 Symbolic Logic

Value Theory: Select 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

Metaphysics or Epistemology: Select 3 semester hours from:

- PHIL 4310 Epistemology
- PHIL 4330 Metaphysics

Methods:

- PHIL 3305 Philosophical Method

The History of Philosophy

- PHIL 3359 History of Philosophy: Ancient Philosophy
- PHIL 3361 History of Philosophy: Modern

Designated Electives: 18 hours in philosophy

TOTAL 120 hrs.

Requirements for a Minor Philosophy:

18 total hours of philosophy, 9 of which must be upper division.

Select 3 semester hours from:

PHIL	1310	Introduction to Philosophy
PHIL	2330	Introduction to Ethics

Select 3 semester hours from:

PHIL	1305	Critical Thinking
PHIL	1321	Introduction to Formal Logic

Designated Electives: 12 hours in philosophy

Course Descriptions

Complete course descriptions for Philosophy courses can be found on pg. 170.

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.

A minor in Religious Studies requires 18 hours of coursework, nine of which must be advanced. PHIL 1330: World Religions is required. Six hours of Introductory Religion Courses are also required. Students must choose two courses from PHIL 2370: Introduction to Asian Philosophy, PHIL 2371: Introduction to Christianity, PHIL 2372: Introduction to Judaism, and PHIL 2372: Introduction to Islam. Finally nine hours of upper division inter-disciplinary coursework is required.

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 trans-disciplinary 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 and Literature. The program is designed as a broad-field major.

Major Requirements 39 hrs.

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 hrs. 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.

In addition to the core curriculum and MAS major requirements, students will be required to choose an academic minor (usually 18 hours), and may need to 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 adviser.

Mexican American Studies Courses

*Other MAS coursework not listed with a minimum of 50% MAS content will be considered in consultation with an adviser as an elective for the B.A. in MAS.

College of Arts and Humanities

ART:

ART	4351	Latin American Art: Pre-Conquest
ART	4352	Latin American Art: Post-Conquest

Dance:

DANC 2349, 3349, 4349

Folklorico I: Primary Technique
DANC 2250, 3250, 4250

Folklorico II: 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: U.S. Mexican Border

Inter-American Studies:

LAMS	2301	Intro. to Inter-American Studies
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Mexican American Studies:

MAS	2301	Introduction to Mexican American Studies
MAS	4300	Learning through Reflective Service: The Mexican American Experience
MAS	4392	Special Topics in Mexican 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
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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 and Southwest
WMST	3379/PHIL	Chicana and Latin American Feminisms

College of Social and Behavioral Sciences

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
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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
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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. Chris Keller,
Interim Department Chair

Communication Arts and Sciences Building, Room 329
1201 W. University Drive
Edinburg, TX 79539-2999
Telephone: (956) 665-3441
Fax: (956) 665-5381
E-mail: keller@utpa.edu
Web: www.utpa.edu/dept/modlang

Dr. José Esteban Hernández,
Associate Chair

Full-Time Faculty

Alvarez Martinez, Stephanie, Assistant Professor
Ardalani, Elvia G., Associate Professor
Baez, Nalda, Assistant Professor
Behar, Stella, Professor
Browne, Peter E., Associate Professor
Contreras, Victoria, Professor
Cortina, Guadalupe M., Associate Professor
Garcia, Carmela, Lecturer
Guerrero, Maria, Assistant Professor
Hernandez, Jose E., Associate Professor

Loera, Francisco, Lecturer
Martin-Ochoa, Luz Maria, Assistant Professor,
Martinez, Jose Maria, Associate Professor
Mejias, Hugo, Professor
Rea, Ramiro R., Professor
Romero, Hector R., Professor
Stachura, Anne, Assistant Professor

Emeritus Professors

Garcia, Lino
Vassberg, Lilliane

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 Studies and a minor is offered in Spanish, Medical Spanish, French, and Latin American Studies. Teacher certification plans in Spanish and French are available at all 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.

MINOR IN LATIN AMERICAN STUDIES

Required Courses 6 hrs.

SPAN	2307	Intermediate Spanish for Native Speakers
SPAN	2308	Intermediate Spanish for Native Speakers

Choose one course from the following: 3 hrs.

HIST	3333	Colonial Mexico, Central America and South America
HIST	4374	Caribbean and Central America

Choose one course from the following: 3 hrs.

SPAN	3310	Masterpieces of Spanish-American Literature
SPAN	3311	Masterpieces of Spanish-American Literature II

Choose one course from the following: 3 hrs.

POLS	4383	Politics of Central America and the Caribbean
POLS	4387	Politics of Mexico
ANTH	4348	Peoples and Cultures of Mexico

Other Electives 3 hrs.

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 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	4330	Spanish Sociolinguistics
SPAN	4338	Nineteenth Century Spanish Literature
SPAN	4339	Spanish-American Short Story
SPAN	4340	Spanish-American Essay
SPAN	4348	Sociolinguistics and Latino Health

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 all-level certification degree plans should consult with their adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/studentservices.

Core Curriculum Requirements	43 hrs.
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Complete the requirements shown in the University core curriculum requirements section of this catalog on pg. 97 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

Language Proficiency Requirement: Student must complete or show proficiency equivalent to 6 hours of college-level language other than English and Spanish.

Core Courses	36 hrs.
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Complete the following:

Language 9 hrs.

- SPAN 2307** Intermediate Spanish for Native Speakers I
- SPAN 2308** Intermediate Spanish for Native Speakers II
- SPAN 3303** Advanced Spanish Composition

Literature 12 hrs.

- 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 15 hrs.

- SPAN 3319** Introduction to Hispanic Linguistics
- SPAN 3306** Spanish Phonetics and Phonology
- SPAN 3330** Advanced Spanish Grammar
- SPAN 4315** Spanish Applied Linguistics
- SPAN 4316** Problems and Issues Related to Language

TOTAL 121 hrs.

MAJOR IN SPANISH

(without certification)

Same as above excluding SPAN 4315 and SPAN 4316, which may be taken as an elective.

MAJOR IN FRENCH STUDIES

Core Courses 36 hrs. (30 hours, plus 6 hours from concentration)

Complete the following: 12 hrs.

- FREN 1321** Beginning French I
- FREN 1322** Beginning French II
- FREN 2321** Intermediate French I
- FREN 2322** Intermediate French II

Choose from the following: 18 hrs.

- FREN 3321** French Composition I
- FREN 3322** French Composition II
- FREN 3323** Business French
- FREN 4120** French Civilization on Location (may be repeated)
- FREN 4321** French Literature in Genres
- FREN 4322** Survey of French Literature
- FREN 4323** French for the Profession
- FREN 4324** French Civilization I
- FREN 4325** French Civilization II
- FREN 4326** Survey in French Literature II
- FREN 4331** Theater practice in French
- FREN 4339** Special Topics

Concentration 6 hrs.

Choose six hours from one concentration:

Literature

- FREN 4321** French Literature in Genres
- FREN 4322** Survey of French Literature I
- FREN 4326** Survey of French Literature II
- FREN 4339** Special Topics (in French 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	19 hours
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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
SPAN	3199	Spanish Internship

MINOR IN HISPANIC MEDIA STUDIES

(See Department of Communication)

MINOR IN FRENCH

(without certification)

18 hours of French courses, of which six must be advanced.

MINOR IN FRENCH

(with teacher certification)

24 hours of French courses, of which 12 must be advanced.

Teacher Certification Programs and Requirements

Admission to COE teacher education programs is required for all undergraduate students seeking teacher certification. Students following all-level certification degree plans should consult with their adviser 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) 665-3420 or visit the website for more information at www.utpa.edu/colleges/coe/studentservices.

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 pg. 153 (French), pg. 162 (Latin American Studies, and pg. 174 (Spanish).

MUSIC AND DANCE

Dr. Cynthia Cripps,
Interim Department Chair

Fine Arts Building, Room 132
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3471
Fax: (956) 665-3472
E-mail: martinezp@utpa.edu
Web: www.utpa.edu/dept/music

Full-Time Faculty

Amorim, George, Assistant Professor
Cripps, Cynthia, Assistant Professor
Coberly, Rebecca, Assistant Professor
Dabrowski, Peter, Professor
Darsow, Fred, Associate Professor
Davis, Virginia, Assistant Professor
Davis, Wendell, Associate Professor
Grossman, Morley, Professor
Guerra, Dahlia, Professor, Dean of College
Janssen, Tido, Lecturer
Kim, Min, Assistant Professor
Kinsella, Brendan, Assistant Professor
Loera, Francisco, Lecturer
Lopez, Luis, Lecturer
Martinez, Kurt, Assistant Professor
Martinez, Pedro, Assistant Professor, Department Chair
Munn, Christopher, Professor
Munn, Vivian, Associate Professor
Muñoz, Frank, Lecturer
O'Neil, Lorne William, Professor
Pagan, Joel, Assistant Professor
Ragland, Catherine, Assistant Professor
Ramirez, Mark, Assistant Professor
Roeder, Scott, Assistant Professor
Saywell, Martha, Lecturer
Seitz, Diana, Assistant Professor
Shackelford, Dana, Associate Professor
Torres, Saul, Lecturer

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 Music 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 for a minimum of seven semesters. These assignments are as follows: Wind and Percussion-Band, Strings-Orchestra, Voice, Piano-Choir, and 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 their senior year and at the discretion of a faculty committee will 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 required 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 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

Core Courses for Instrumental and Vocal Majors 31 hours

MUS	2212	Music Theory I
MUS	2214	Music Theory II
MUS	2113	Aural Skills I
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	3307	Women in Music
MUS	4201	Form and Analysis
MUS	4308	Conducting II
MUS	4309	Counterpoint

Other Requirements

For Vocal Majors Only: 8 hrs.

MUS	2120	Diction
MUS	2127	Song Literature
MUS	3122	Vocal Repertoire
MUS	3125	Vocal Pedagogy
MUS	3209	Choral Conducting
MUS	4212	Choral Arranging

For Instrumental Majors Only: 7 hrs.

MUS	2128	Instrumental Literature
MUS	31XX	Instrumental Pedagogy
MUS	31XX	Instrumental Repertoire
MUS	3207	Instrumental Conducting
MUS	4203	Orchestration and Arranging

Designated Electives

Applied Music (Primary Instrument) 16 hrs.

Eight semesters minimum, of which four semesters must be advanced.

Applied Music (Secondary Instrument) 8 hrs.

Four semesters minimum, all must be advanced.

Large Music Ensemble 8 hrs.

Eight semesters minimum, of which four semesters must be advanced.

Chamber Music Ensemble

For Vocal Majors: Six semesters minimum, 6 hrs. of which three semesters must be advanced.

For Instrumental Majors: Seven semesters minimum, 7 hrs. of which four must be advanced.

Other Requirements

Proficiency in piano (Piano Blocks I, II, III) 3 hrs.

- MUS 1112 Class Piano I
- MUS 1113 Class Piano II
- MUS 1114 Class Piano II
 - 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 hrs.

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 adviser 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) 665-3420 or visit the website for more information at <http://www.utpa.edu/colleges/coe/studentservices>.

The professional education courses for all-level certification include the following: EDUC 4301, EDUC 4302, EDUC 4303, EDUC 4304, READ 4351, and EDUC 4611.

Core Curriculum Requirements 43 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

Core Courses 28 hrs.

- 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 (for Instrumental Majors)
or
- MUS 3209 Choral Conducting (for Vocal Majors)
- MUS 3216 Elementary Music
- MUS 4201 Form and Analysis
- MUS 4203 Orchestration and Arranging (for Instrumental Majors)
or
- MUS 4212 Choral Arranging (for Vocal Majors)

Designated Electives Instrumental 7 hrs.

All are required

- MUS 2122 Class Percussion
- MUS 2123 Class Brass
- MUS 2124 Class Woodwinds
- MUS 2125 Class Strings
- MUS 3217 Secondary Music Methods
- MUS 31XX Instrumental Repertoire

Vocal/Keyboard All five courses are required 6 hrs.

- MUS 2120 Vocal Diction
- MUS 2127 Song Literature
- MUS 3122 Choral Repertoire
- MUS 3125 Vocal Pedagogy*
- MUS 3221 Secondary Choral Methods

*Required for students with a major instrument of voice or piano.

Applied Music

Seven semesters minimum, of which three semesters must be advanced. 14 hrs.

Music Ensemble

Seven semesters minimum, of which three semesters must be advanced.

For Instrumental Majors	7 hrs.
For Vocal Majors	8 hrs.
Professional Education Courses	21 hrs.

EDUC 4301	Teaching and Learning in Contemporary Schools
EDUC 4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303	Teaching Special Populations in Inclusive Classrooms
EDUC 4304	Instructional Planning and Assessment
READ 4351	Learning through Literacy in the Content Areas
EDUC 4611	Student Teaching

Other Requirements

Proficiency in piano	3 hrs.
MUS 1112	Class Piano I
MUS 1113	Class Piano II
MUS 114	Class Piano III

Senior Recital (30-minute minimum)

A total of 60 hours in music, of which 30 hours must be advanced.

NOTE: A second teaching field is not required.

TOTAL	123 hrs.
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MINOR IN MUSIC: APPLIED MUSIC

Two semesters of first-year music theory and aural skills.	6 hrs.
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MUS 2212/MUS 2113 (taken concurrently) and MUS 2214/MUS 2115 (taken concurrently)
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One semester of music literature or music appreciation	2 or 3 hrs.
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MUS 2201 or MUS 1307 or MUS 1308 or MUS 1309
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Two semesters of applied lessons on the same instrument (1 lower level, 1 upper level)	4 hrs.
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MUS 12xx/32xx: 1 hour applied music lesson 2 semesters of large ensemble (1 lower level, 1 upper level)	2 hrs.
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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 hrs.
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ensembles, lessons, conducting, women in music, music business, music education, etc.

Any combination of the above courses

Totaling 3-plus credits

Piano proficiency	1 hr.
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(Block 1 only - Student will take Class Piano MUS 1112 until they pass Block 1)

MUS 1112

TOTAL	18-19 hrs.
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A listing of courses offered by the Department of Music can be found on pg. 164.

MAJOR IN DANCE: PERFORMANCE TRACK

Required Courses	37 hrs.
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DANC 1202	Dance Improvisation
DANC 1351	Intro to Dance
DANC 2303	Music for Dancers
DANC 2112	Dance Performance Beginning/Intermediate or
DANC 3112	Dance Performance Intermediate/Advanced (two hours required)
DANC 3301	Choreography I
DANC 3302	Choreography II
DANC 3308	Dance History
DANC 3311	Dance Production
DANC 3320	Dance Science
DANC 3121	Dance Science Lab
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 Theory

Required Dance Techniques Courses	30 hrs.
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Thirty hours total, 24 hours advanced, 12 hours each from two different techniques. One must be ballet or modern. Two hours from remaining technique (ballet, modern, folklorico, flamenco, or jazz). Minimum of one year required at each level

and/or faculty approval to advance.

Select from:

DANC	2341	Ballet I: Primary Technique
DANC	3341	Ballet II: Primary Technique
DANC	4341	Ballet III: Primary Technique
DANC	2242	Ballet II: Secondary Technique
DANC	3242	Ballet II: Secondary Technique
DANC	4242	Ballet III: Secondary Technique
DANC	2244	Ballet Technique: Pointe I
DANC	3244	Ballet Technique: Pointe II
DANC	2321	Jazz Dance I
DANC	3331	Jazz Dance II
DANC	2353	Flamenco I: Primary Technique
DANC	3353	Flamenco II: Primary Technique
DANC	4353	Flamenco III: Primary Technique
DANC	2254	Flamenco I: Secondary Technique
DANC	3254	Flamenco II: Secondary Technique
DANC	4254	Flamenco III: Secondary Technique
DANC	2349	Folklorico I: Primary Technique
DANC	3349	Folklorico II: Primary Technique
DANC	4349	Folklorico III: Primary Technique
DANC	2250	Folklorico I: Secondary Technique
DANC	3250	Folklorico II: Secondary Technique
DANC	4250	Folklorico III: Secondary Technique
DANC	2345	Modern Dance I: Primary Technique
DANC	335	Modern Dance II: Primary Technique
DANC	4345	Modern Dance III: Primary Technique
DANC	2246	Modern Dance I: Secondary Technique
DANC	3246	Modern Dance II: Secondary Technique
DANC	4246	Modern Dance III: Secondary Technique

TOTAL 71 hrs.

Additional Dance Hours 4 hrs.

DANC 3112 Dance Performance
(4 hours required)

Advance Electives 6 hrs.

Six hours must be advanced from the Humanities and Social Science areas. Cannot be DANC hours.

Total 120 hrs.

MAJOR IN DANCE: HIGH SCHOOL CERTIFICATION

Required Courses 37 hrs.

DANC	1202	Dance Improvisation
DANC	1351	Intro to Dance
DANC	2303	Music for Dancers
DANC	2112	Dance Performance Beginning/Intermediate

DANC	3112	or Dance Performance Intermediate/Advanced (two hours required)
DANC	3301	Choreography I
DANC	3302	Choreography II
DANC	3308	Dance History
DANC	3311	Dance Production
DANC	3320	Dance Science
DANC	3121	Dance Science Lab
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 Theory

Required Dance Techniques Courses 16 hrs.

16 hours total, 12 hours advanced, an 6 hours each from two different techniques. One area must be modern. Two hours from each remaining technique (ballet, folklorico, flamenco, or jazz). Minimum one year required at each level and/or faculty approval to advance.

Select from:

DANC	2341	Ballet I: Primary Technique
DANC	2242	Ballet II: Secondary Technique
DANC	2345	Modern Dance I: Primary Technique
DANC	2246	Modern Dance I: Secondary Technique
DANC	2349	Mexican Dance I: Primary Technique
DANC	2250	Mexican Dance I: Secondary Technique
DANC	2353	Spanish Dance I: Primary Technique
DANC	2254	Spanish Dance I: Secondary Technique
DANC	3341	Ballet II: Primary Technique
DANC	3242	Ballet II: Secondary Technique
DANC	335	Modern Dance II: Primary Technique
DANC	3246	Modern Dance II: Secondary Technique
DANC	3349	Mexican Dance II: Primary Technique
DANC	3250	Mexican Dance II: Secondary Technique
DANC	3353	Spanish Dance II: Primary Technique
DANC	3254	Spanish Dance II: Secondary Technique
DANC	4341	Ballet III: Primary Technique
DANC	4242	Ballet III: Secondary Technique
DANC	4345	Modern Dance III: Primary Technique
DANC	4246	Modern Dance III: Secondary Technique
DANC	4349	Mexican Dance III: Primary Technique
DANC	4250	Mexican Dance III: Secondary Technique
DANC	4353	Spanish Dance III: Primary Technique
DANC	4254	Spanish Dance III: Secondary Technique

DANC 2321 Jazz Dance I
DANC 3331 Jazz Dance II

TOTAL 50 hrs.

Professional Education Courses 27 hrs.

EDUC 4301 Teaching and Learning in Contemporary Schools
EDUC 4302 Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303 Teaching Special Populations in Inclusive Classrooms
EDUC 4304 Instructional Planning and Assessment
DANC 4313 Dance in the Public Schools
EDUC 4611 Student Teaching
DANC 4309 Dance Theory

Other Requirements

READ 4351 Learning through Literacy in the Content Areas

TOTAL 120 hrs.

MINOR IN DANCE:

Non-Certified

Required Courses 15 hrs.

DANC 2201 Dance Improvisation
DANC 2112 Dance Performance or
DANC 3112 Dance Performance (2 hours required)
DANC 3308 Dance History
DANC 3311 Dance Production

Select two (6/7 hrs.) from:

DANC 2303 Music Dancers
DANC 3312 Dance Philosophy and Criticism
DANC 3313 World Dance
DANC 3320 Dance Science
DANC 3121 Dance Science Lab I

Required Dance Technique Courses 10 hrs.

Ten hours total, 4 hours advanced, 4 hours each from two different techniques. One area must be ballet or modern. Two hours from one remaining technique area (ballet, folklorico, flamenco, or jazz). Minimum one year required at each level and/or faculty approval to advance.

Select from:

DANC 2341 Ballet I: Primary Technique
DANC 2242 Ballet II: Secondary Technique

DANC 2345 Modern Dance I: Primary Technique
DANC 2246 Modern Dance I: Secondary Technique
DANC 2349 Mexican Dance I: Primary Technique
DANC 2250 Mexican Dance I: Secondary Technique
DANC 2353 Spanish Dance I: Primary Technique
DANC 2254 Spanish Dance I: Secondary Technique
DANC 3341 Ballet II: Primary Technique
DANC 3242 Ballet II: Secondary Technique
DANC 335 Modern Dance II: Primary Technique
DANC 3246 Modern Dance II: Secondary Technique
DANC 3349 Mexican Dance II: Primary Technique
DANC 3250 Mexican Dance II: Secondary Technique
DANC 3353 Spanish Dance II: Primary Technique
DANC 3254 Spanish Dance II: Secondary Technique
DANC 4341 Ballet III: Primary Technique
DANC 4242 Ballet III: Secondary Technique
DANC 4345 Modern Dance III: Primary Technique
DANC 4246 Modern Dance III: Secondary Technique
DANC 4349 Mexican Dance III: Primary Technique
DANC 4250 Mexican Dance III: Secondary Technique
DANC 4353 Spanish Dance III: Primary Technique
DANC 4254 Spanish Dance III: Secondary Technique
DANC 2321 Jazz Dance I
DANC 3331 Jazz Dance II

TOTAL 24-25 hrs.

Course Descriptions

A listing of dance courses can be found on pg. 143.

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. \$40 course fee.

ART 1332 Typography [2-4] (Texas Common Course Number is ARTS 2348)

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. \$40 course 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. **Prerequisites:** None. \$40 course fee

ART 1334 Design I [2-4] (Texas Common Course Number is ARTS 1311)

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. **Prerequisites:** None. \$40 course fee

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. **Prerequisites:** ART 1334. \$40 course fee.

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. \$40 course fee.

ART 2321 Painting I [2-4] (Texas Common Course Number is ARTS 2316)

as scheduled

Students will acquire the required fundamental skill set for the exploration of painting 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. **Prerequisites:** ART 1311. \$40 course 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. **Prerequisites:** ART 1335. \$40 course fee.

ART 2351 Arts of the West to 1400 A.D. [3-0] (Texas Common Course Number is ARTS 1303)

fall, spring, summer

A comprehensive examination of the major artistic and architectural achievements of western civilization from Paleolithic through Gothic. **Prerequisites:** None. \$20 course fee.

ART 2352 Arts of the West Since 1400 A.D. [3-0] (Texas Common Course Number is ARTS 1304)

fall, spring, summer

A comprehensive examination of the major artistic and architectural achievements of western civilization from the Renaissance to the present. **Prerequisites:** None. \$20 course fee.

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:** None. \$40 course 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. \$40 course 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. **Prerequisites:** ART 2303 Jewelry/Metalworking I. \$40 course 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 metalworks. 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. **Prerequisites:** ART 2303 and ART 3302. \$40 course 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. **Prerequisites:** ART 1311. \$40 course fee.

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. **Prerequisites:** ART 1311 and ART 3310. \$40 course fee.

ART 3320 Painting II [2-4]

fall, spring, summer

Students will acquire the required fundamental skill set for the exploration of painting 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. **Prerequisites:** ART 2321. \$40 course fee.

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 nine hours credit.) **Prerequisites:** ART 2321 and ART 3320. \$40 course 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. **Prerequisites:** Sophomore standing. \$40 course 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. The 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. \$40 course 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. \$40 course fee.

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. \$40 course 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 and ART 3332. \$40 course fee.

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. \$40 course 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. \$40 course 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. \$40 course 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. \$40 course fee.

ART 3339 Professional Photographic Documentation [3-0]

fall, spring, summer

The professional use of photography to document laboratory, field and archival investigations in such fields as engineering, science, forensics, anthropology, archaeology, humanities, art and art history.

Prerequisite(s): None

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.

Prerequisites: ART 1335 and ART 2341. \$40 course fee.

ART 3350 Research Methods In Latin American Art and Architectural History [3-0]

fall, spring, summer

The practice of effective research methods for Latin American art and architectural history. **Prerequisites:** Sophomore standing.

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 and ART 2352 or permission of the instructor. \$20 course fee.

ART 3355 History of Spanish Architecture [3-0]

711 to 1825 A.D.

fall, spring, summer

A history of the greatest achievements in architecture in

Spain from the Islamic conquest in 711 A.D. until 1825 and Spain's loss of control of most of its overseas colonies. Special emphasis will be placed on the profound Hispano-Islamic and Mudejar influences on Spanish Christian architecture that distinguish it from that of the rest of Western Europe.

Prerequisites: ART 2351 and ART 2352, or permission of the instructor.

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:** None. [\$20 course fee.

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 and ART 2352 or permission of the instructor. \$20 course fee.

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 and ART 2352 or permission of the instructor. \$20 course fee.

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. **Prerequisites:** ART 1334 and ART 2361. \$40 course 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. **Prerequisites:** ART 3361. \$40 course 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. **Prerequisites:** ART 1335 and ART 2371. \$40 course 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. **Prerequisites:** ART 3371. \$40 course 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. **Prerequisites:** Junior standing. \$20 course fee.

ART 3382 Perception and Expression in Art II [3-0]

spring and as scheduled

Emphasis on further in-depth studio development.

Prerequisites: ART 3381 or permission of instructor.

Recommended for certification requirements. \$20 course fee.

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. **Prerequisites:** Junior standing. \$20 course fee.

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. \$20 course fee.

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. \$40 course 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 three hours outside assignments per week is required. This course may be repeated for a total of 12 hours credit. **Prerequisites:** ART 3311. \$40 course fee.

ART 4321 Painting IV [2-4]

as scheduled

Advanced study in painting with 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. **Prerequisites:** ART 3321. \$40 course 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. **Prerequisites:** Junior standing. \$40 course 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 toward a personal methodology. **Prerequisites:** Junior standing and ART 4333. \$40 course 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 and 4338. \$40 course fee.

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 1334.. \$40 course fee.

ART 4338 Interactive Design [2-4]

fall, spring, summer

A studio course in which websites 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. \$40 course fee.

ART 4339 Portfolio [2-4]

fall, spring, summer

This course focuses on the development of a professional hard copy and online portfolio. Students will prepare and organize work into a presentable and targeted dossier for use in their career placement. A minimum of three hours of outside assignments per week is required. **Prerequisites:** Senior-level standing. \$40 course fee.

ART 4341 Sculpture III [2-4]
fall, spring, summer
Continuation of student's 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. **Prerequisites:** ART 3341. \$40 course 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 and ART 2352 or permission of the instructor. \$20 course fee.

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 and ART 2352 or permission of the instructor. \$20 course fee.

ART 4355 Modern Art of South America 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 and ART 2352 or permission of the instructor. \$20 course fee.

ART 4356 History of Photography [3-0]
fall, spring, summer
The history of photography as an art form throughout the world from its inception under Talbot, Niepce and Daguerre to the present. Special emphasis on photography in Mexico, Latin America and the Borderlands. **Prerequisites:** ART 2351, ART 2352, or permission of the instructor.

ART 4357 Art and Architecture of Asia, Africa And Oceania [3-0]
fall, spring, summer
A rigorous examination of thousands of years of the finest architecture and art of China, Japan, India, Southeast Asia, Africa and Oceania. **Prerequisites:** ART 2351, ART 2352, 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 and ART 2352 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. This is a required capstone course for the Bachelor of Arts in Art degree. It is open to all qualified UTPA students. \$20 course fee.

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. \$40 course 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. **Prerequisites:** ART 3372. \$40 course 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. **Prerequisites:** Junior standing. \$20 course fee.

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. **Prerequisites:** Junior standing or permission of the instructor. \$40 course fee.

ART 4391 Individual Problems/Internship/Co-op
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
fall, spring, summer
Advanced problems in the area of student's choice. **Prerequisites:** 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,

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. **Prerequisites:** Senior-level standing. All upper and lower-division courses must be completed. \$40 course 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.

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
MC = Mass Communication
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 (CS) [3-0]

(Texas Common Course Number is SPCH 1311)

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. **Prerequisites:** None.

COMM 1303 Presentational Speaking (CS) [3-0]
(Texas Common Course Number is SPCH 1315)

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]
(Texas Common Course Number is DRAM 1351)

as scheduled

Improvisational acting techniques and the application of these principles to stage, television and film.

COMM 1311 Stagecraft (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 Mass Communication and Society (MC) [3-0]

(Texas Common Course Number is COMM 1307)

as scheduled

Provides 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 theories of mass communication will be examined.

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 (MC) (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 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 (MC) (TH) [3-0]

(Texas Common Course Number is COMM 1336)
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]

(Texas Common Course Number is DRAM 1352)
as scheduled

Intensive study of the techniques of building and developing a characterization.

COMM 2310 Video and Film Editing I [3-0]

fall, spring, summer

The basics of nonlinear editing using Final Cut Pro Software will be presented to the student. **Prerequisites:** COMM 2304 TV Production or with permission of instructor.

COMM 2312 Theatre Appreciation (TH) (GE) [3-1]

(Texas Common Course Number is DRAM 1310)
as scheduled

This class covers the basic elements of live theatre and especially stresses the understanding and appreciation of the nature, function, and history of theatre and its collaborative elements. Guest directors, actors and designers augment the discussions. Theatre Appreciation also develops students abilities to make perceptive and qualitative judgments about theatre through critical thinking. 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]

(Texas Common Course Number is SPCH 1318)
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 2316 Small Group Communication (CS) [3-0]

(Texas Common Course Number is SPCH 2333)
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.

COMM 2317 Argumentation and Debate (CS) [3-0]

(Texas Common Course Number is SPCH 2335)
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.

COMM 2319 Make-Up (TH) [3-0]

(Texas Common Course Number is DRAM 1341)
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]

(Texas Common Course Number is DRAM 1342)
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 Voice and Diction (TH) [3-0]

as scheduled

The purpose of this course is to help you understand and duplicate the sounds of standard American speech as expected of announcers, actors, and other professional speakers. The class will help you develop a stress-free, well-modulated vocal quality that has as full a range as possible of pitch, clarity and force. The course also helps you understand the process of vocal production in order to assist you in maintaining a healthy voice, and to be familiar with the different styles of speaking used in the various media live stage performances, film,

television, public presentation and radio.

COMM 3303 Writing for the Mass Media (MC) [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 (MC) [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 (MC) [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 (MC) [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

This course focuses on the study of creativity and creative drama especially in their applications in the classroom and other work places where the student might be in a leadership position. It focuses on the development of creativity through specific exercises and original dramatization. It is of special interest to the educator and parent, and of significant value to those who work in the theatre or who rely on creative notions to improve chances for success.

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 – stage, film and television.

COMM 3311 Contemporary Drama (TH) [3-0]

as scheduled

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 a English or Communication course in satisfying degree requirements. Credit may be received for only one course.

Prerequisites: Nine 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 – 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.

Prerequisites: 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 New Topics In Communication Studies (CS) [3-0]

as scheduled

Application of the communication perspective as a dynamic process of human interaction. Significant issues and topics in interpersonal relationships, social conflict, crisis communication and supervisory communication among others. 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 Communication 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 a English or Communication course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** Nine hours of English.

COMM 3324 Location Film and Video Production(TH) [3-0]

as scheduled

Principles of single camera 'film 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. Prerequisite: COMM 2310

COMM 3325 History and Significance of Motion Picture (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. Equivalent Course: FILM 3325; may be counted as Communication or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

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. Equivalent Course: FILM 3326 may be counted as a Communication or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

COMM 3327 Reporting I (MC) [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 Writing for Mass Media or with consent of instructor.

COMM 3329 Reporting II (MC) [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 3327 Reporting I or by consent of instructor.

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 3335 Advanced Public Speaking (CS) [3-0]

as scheduled

Theory and intensive application of various public speaking situations – 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. **Prerequisites:** COMM 1313 or COMM 1303.

COMM 3336 Media, Race and Ethnicity (MC) [3-0]

fall, spring, summer

Explores the historical and philosophical roots of the concepts of race and ethnicity, and their relation both to migration/immigration and personal/collective identity construction. It also examines the impact of mass media on racial and ethnic identity, using mass communication theory to understand the political and social dimensions on the concepts in question. Particular attention is given to racial and ethnic identity on the U.S.-Mexican border and the media's influence on conceptions and perceptions.

COMM 3337 Global Communication (MC) [3-0]

fall, spring, summer

The course looks at important issues in global communication through mass communication and media products (movies, books, advertising, music and more). how the mass media functions in other societies, the changing relationships between developing and developed countries, and examine how cultural identity, nationalism and globalization are communicated through the mass media will be covered. They will also learn the skills they need to work in/with global mass communication.

COMM 3338 Bronc Radio/TV (MC) (TH) [3-0]

as scheduled

A production course that incorporates a student production team who produce radio and television programming for a semester. Students, in real time, plan, write and produce both radio and television shows that are presented over the station's website and local specials on the local cable system. Basic broadcast writing principles in audio, video and online formats will be used.

COMM 3339 Broadcast Audio Production (MC)**[3-0]**

as scheduled

This is an introductory course in audio production for broadcast, field production and non-broadcast applications. This course provides an overview of digital non-linear editing and radio station operations. The theories, tools, techniques and regulatory controls of audio production are studied. Students are required to complete laboratory exercises for this course.

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 3344 Conflict Management (CS)**[3-0]**

as scheduled

An examination of the communication theories and processes involved with interpersonal conflict. Students develop critical thinking skills that help them frame and analyze conflict situations enhancing their ability to apply the concepts and techniques learned in class to conflict situations that occur in personal and professional contexts.

COMM 3345 Gender & Communication (CS) [3-0]

as scheduled

This course is designed to provide students with an understanding of and an appreciation for the communicative and cultural differences between the sexes. Students will develop an understanding of the characteristics related to gender communication, become familiar with crucial issues and problems facing individuals of differing gender, and gain practice in applying this acquired knowledge and appreciation to improve trans-gender communication.

COMM 3346 Health Communication (CS) [3-0]

as scheduled

This course offers a broad overview of both theoretical and applied approaches to health communication. Students will be exposed to a variety of health communication topics including issues in provider-recipient communication, decision making, social identity, family dynamics, the role of culture in health and disease, health care delivery, and health information campaigns. Specific attention will be paid to the process of creating and organizing health interventions tailored to a particular health threat and target audience.

COMM 3347 Family Communication (CS) [3-0]

as scheduled

This course explores a variety of theoretical and applied family communication topics. Specifically, students will be exposed

to multiple family interaction patterns between parents and children, romantic partners, marital partners, siblings, and extended family members. Students will also focus on several family communication constructs including secrets, narratives, traditions, and cultural expectations.

COMM 3348 Copy Writing (MC)**[3-0]**

as scheduled

An exploration of the writer's craft. Using a variety of literary genres, students will understand the power of words and how this applies to strategic advertising copywriting.

COMM 3349 Multimedia Storytelling (MC) [3-0]

as scheduled

Gives students hands-on experiences in reporting, producing and presenting stories for the twenty-first century media environment. Focus is on creative and technical challenges involved in multi-media storytelling. Instruction in audio, video, reporting/interviewing, software, editing and photography skills necessary to produce compelling multi-media projects.

COMM 3350 Research in Communication (CS) (MC)**[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 3351 Broadcast News Writing (MC) [3-0]

as scheduled

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. **Prerequisites:** COMM 2304 Television Production and COMM 2310 Video & Film Editing I or with permission of instructor.

COMM 3352 TV News Production and Reporting (MC)**[3-0]**

as scheduled

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. **Prerequisites:** COMM 2304 Television Production and COMM 2310 Video & Film Editing I or with permission of instructor.

COMM 3351**[3-0]**

as scheduled

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. **Prerequisite(s):** COMM 2304 Television Production and COMM 2310 Video & Film Editing I or with permission of instructor
COMM 3352

COMM 3353 Broadcast Advertising Production (MC) [3-0]

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(s): COMM 2304 Television Production and COMM 2310 Video & Film Editing I or with permission of instructor.

COMM 4101 Practicum 6 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 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

This course encompasses the study, observation and practice in selecting scripts and working with problems, methods and techniques of direction and production. Emphasis is on practical application and execution of directing film and theatre scripts. Students will learn how the production process works through preproduction, production and post-production areas. Prerequisite: COMM 1305

COMM 4302 Directing II (TH) [1-0]

as scheduled

This is the capstone course for the communication Theatre/TV/ Film majors. Students will produce, direct and prepare a short 10-15 minute film and a 15-20 minute scene from a published play. Emphasis is on practical application of directing techniques acquired during COMM 4301 Directing I. Prerequisite: COMM 2310

COMM 4303 Special Topics (CS, MC, TH)

as scheduled

The class is designed to give students and opportunity to study a special advanced topic not required in the undergraduate curriculum. For the advanced undergraduate, this course may be taken more than once if the topic changes.

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 4309 Nonverbal Communication (CS)[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 4310 Media Planning (MC) [3-0]

as scheduled

This course covers the strategic selection of media use and placement of advertising messages in the media. Includes the study of media characteristics, market research, media strategies, media analysis, media-market measurements and the development of media plans. Emphasis is on the analysis of major mass media strategies, tactics and planning.

COMM 4312 Video and Film Editing II (MC, TH) [3-0]

as scheduled

From news stories to feature films, the video film editing step is the last rewrite of the material before it is shown or broadcast. The student will be exposed to professional software and acquire both the arts and crafts of assembling sound and visuals into a finished viewable product including sound effects, music, dialogue replacement and titles as well as DVD authoring.

Prerequisites: COMM 2310 Video and Film Editing I or with permission of instructor.

COMM 4313 Media Law and Ethics (MC) [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 (MC) (TH) [3-0]

as scheduled

Advanced-level course stressing the application of basic arts and media developed in Comm. 2304 and making use of advanced students in directing, technical crafts, performance and scriptwriting. May be repeated for credit with new production. Prerequisite: COMM 2304, COMM 2310

COMM 4315 History of the Theatre I (TH) [3-0]

as scheduled

This course provides students with a critical introduction to the history of Western theatre, from the ancient Greeks

to Elizabethan England. It will be conducted primarily as a lecture/play analysis course, and secondarily as a forum for the discussion of critical issues in historiography as they relate to the theatre. Subjects include a chronological survey of Western Theatre; standard period categories; related areas in performance studies and non-Western theatre; major cultural and historical forces and climates. Multi-media resources will augment the lectures and discussions.

COMM 4316 History of the Theatre II (TH) [3-0]

as scheduled

This course is a continuation of History I and its critical introduction to the history of Western theatre. History II begins with the English Restoration and progresses through Victorian theatre, Romanticism, and the rise of Absurdist drama of the 20th century as well as mid-century American classics. It will be conducted primarily as a lecture/play analysis course, and secondarily as a forum for the discussion of critical issues in historiography as they relate to the theatre. Subjects include a chronological survey of Western Theatre; standard period categories; related areas in performance studies and non-Western theatre; major cultural and historical forces and climates. Multi-media resources will augment the lectures and discussions.

COMM 4317 Children's Theatre Workshop (TH) [3-0]

as scheduled

This course is an intensive workshop in which students are responsible for all aspects of the production of a professional play for children. The play produced will embody the key principles of any excellent theatrical production. The course is practical in its approach it will encompass as much real-life acting company flavor as possible, including the business of a traveling acting company.

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 (MC) [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 (MC) [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. **Prerequisites:** COMM 3303 Writing for Media and COMM 4321 Public Relations or with permission of instructor.

COMM 4326 Photojournalism (MC) [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 camera and equipment.

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 Visual Communication (MC) [3-0]

as scheduled

Computer production of a variety of print media publishing, including layout, design and writing.

COMM 4334 Communication Campaigns (MC) [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 Advertising or COMM 4321 Public Relations, COMM 3350 Communication Research, COMM 4335 Creative Strategies or with permission of instructor.

COMM 4335 Creative Strategies (MC) [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 Advertising, or COMM 4321 Public Relations, and COMM 3350 Communication Research or with permission 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.

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 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.

DANCE

DANC 1202 Dance Improvisation [0-4]

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 1222 Folk and Square Dance [0-3]

(Texas Common Course Number is DANC 1222)
Introduction to folk and square dance technique and styles. There is a \$6 activity fee.

DANC 1228 Ballroom Dance [0-3]

(Texas Common Course Number is DANC 1228)
Introduction to ballroom dance technique and styles. There is a \$6 activity fee.

DANC 1230 Yoga [0-3]

Introduction to yoga practice. There is a \$6 activity fee.

DANC 1240 Pilates [0-3]

Introduction of Pilates mat work. There is a \$6 activity fee.

DANC 1241 Ballet I: Primary [0-4.5]

(Texas Common Course Number is DANC 1241.)
Introduction to Ballet technique and styles. There is a \$6

activity fee.

DANC 1242 Ballet I: Secondary [0-3]

Introduction to Ballet technique and styles. There is a \$6 activity fee.

DANC 1245 Modern Dance: Primary [0-4.5]

(Texas Common Course Number is DANC 1245)
Introduction to modern technique and styles. There is \$6 activity fee.

DANC 1246 Modern Dance: Secondary [0-3]

Introduction to modern technique and styles. There is a \$6 activity fee.

DANC 1249 Folklorico I: Primary [0-4.5]

(Texas Common Course Number is DANC 1249)
Introduction to folklorico dance technique and styles. There is a \$6 activity fee.

DANC 1250 Folklorico I: Secondary [0-3]

as scheduled
Introduction to folklorico dance technique and styles. There is a \$6 activity fee.

DANC 1253 Flamenco I: Primary [0-4.5]

Introduction of flamenco dance technique and styles. There is a \$6 activity fee.

DANC 1254 Flamenco I: Secondary [0-3]

Introduction to flamenco dance technique and styles. There is a \$6 activity fee.

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. There is a \$6 activity fee.

DANC 2110 Tap Dance I [0-3]

(Texas Common Course Number is DANC 1110.)
Introduction to tap dance technique and styles. **Prerequisites:** Permission of instructor. There is a \$6 activity fee.

DANC 2112 Dance Performance: Beginning/Intermediate [0-3]

(Texas Common Course Number is DANC 1112)
Introduction to dance performance participation and techniques. Must be registered concurrently in any dance technique course. **Prerequisites:** Permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 2120 Jazz Dance I [0-3]

Introduction to jazz dance technique and styles.
Prerequisites: Permission of instructor. There is a \$6 activity fee.

DANC 2130 Dance Technique:

Special Topics I [0-3]

Intensive study in dance technique; study with guest artists. **Prerequisites:** Permission of instructor. May be repeated for credit as topics change. There is a \$6 activity fee.

DANC 2144 Ballet Technique: Pointe I [0-3]

(Texas Common Course Number is DANC 1141)
Instruction in Pointe technique. **Prerequisites:** Grade of B or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 2244 Ballet Technique: Pointe I [0-4]

(Texas Common Course Number is DANC 1141)
Instruction in Pointe technique. **Prerequisites:** Grade of B or better in DANC 2242 or 2341 or permission of instructor.

DANC 2210 Tap Dance I [0-3]

(Texas Common Course Number is DANC 1147)
Introduction to tap dance technique and styles. There is a \$6 activity fee.

DANC 2220 Jazz Dance I [0-3]

Introduction to jazz dance technique and styles. There is a \$6 activity fee.

DANC 2241 Ballet I: Primary [0-4.5]

Study of fundamentals of ballet technique. **Prerequisites:** Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit. There is a \$6 activity fee.

DANC 2341 Ballet I: Primary [0-6]

Study of fundamentals of ballet technique.

DANC 2242 Ballet I: Secondary [0-3]

Study of fundamentals of ballet technique. **Prerequisites:** Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit. There is a \$6 activity fee.

DANC 2345 Modern Dance I: Primary [0-6]

Study of fundamentals of modern dance technique.

DANC 2246 Modern Dance I: Secondary [0-3]

Study of fundamentals of modern technique. **Prerequisites:** Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit. There is a \$6 activity fee.

DANC 2349 Folklorico I: Primary [0-6]

Study of fundamentals of Folklorico dance technique.

DANC 2250 Folklorico I: Secondary [0-3]

Study of fundamentals of Folklorico dance technique. **Prerequisites:** Permission of instructor and credit for or concurrent enrollment in DANC 1351. May be repeated for credit. There is a \$6 activity fee.

DANC 2353 Flamenco I: Primary [0-6]

Study of fundamentals of Flamenco dance technique.

DANC 2254 Flamenco I: Secondary [0-3]

Study of fundamentals of Flamenco dance technique. **Prerequisites:** Permission of instructor and credit or concurrent enrollment of DANC 1351. May be repeated for credit. There is a \$6 activity fee.

DANC 2303 Music for Dancers [3-0]

Introduction to musical elements as they relate to dance technique, performance, and instruction.

DANC 2323 Dance Appreciation [3-0]

(Texas Common Course Number is DANC 2303) 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 pg. 97 for details.) There is a \$6 activity fee.

DANC 3110 Tap Dance II [0-3]

Continuation of DANC 2110. **Prerequisites:** Grade of B or better in DANC 2110 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3112 Dance Performance: Intermediate/Advanced [0-3]

Intermediate/advanced dance performance techniques. Must be registered concurrently in any dance technique course. **Prerequisites:** Permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3120 Jazz Dance II [0-3]

Continuation of DANC 2120. **Prerequisites:** Grade of B or better in DANC 2120 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3121 Dance Science Lab [0-1.5]

This course is designed to provide a deeper understanding of the concepts taught in the DANC 3320 Dance Science lecture course through the application of several means of assessment with the integration of conditioning activities geared toward injury prevention. There is a \$6 activity fee. **Prerequisites:** BIOL 2403 and 2404; concurrent enrollment in DANC 3320.

DANC 3130 Dance Technique: Special Topics II [0-3]

Intensive study in advanced dance technique; study with guest artists. **Prerequisites:** Permission of instructor. May be repeated for credit as topics change. There is a \$6 activity fee.

DANC 3143 Ballet Technique: Variations [0-3]

Focus on ballet repertory, including classical variations and contemporary styles and dance works. **Prerequisites:** Grade of B or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit as repertory changes. There is a \$6 activity fee.

DANC 3244 Ballet Technique: Pointe II [0-3]

Instruction in advanced Pointe technique. **Prerequisites:** Grade

of B or better in DANC 2244 or permission of instructor.

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. **Prerequisites:** DANC 2101 (Dance Improvisation). There is a \$6 activity fee.

DANC 3301 Choreography I [3-0]

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. **Prerequisites:** DANC 1202 (Dance Improvisation).

DANC 3210 Tap Dance II [0-3]

Continuation of tap dance technique and styles. There is a \$6 activity fee.

DANC 3220 Jazz Dance II [0-3]

Continuation of jazz dance technique and styles. There is a \$6 activity fee.

DANC 3341 Ballet II [0-6]

Continuing study of fundamentals of ballet technique. **Prerequisites:** Grade of B or better in DANC 2341 or permission of instructor.

DANC 3242 Ballet II [0-3]

Continuing study of fundamentals of ballet technique. **Prerequisites:** Grade of B or better in DANC 2242 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3345 Modern Dance II [0-6]

Continuing study of fundamentals of modern dance technique. **Prerequisites:** Grade of B or better in DANC 2345 or permission of instructor.

DANC 3246 Modern Dance II [0-3]

Continuing study of fundamentals of modern dance technique. **Prerequisites:** Grade of B or better in DANC 2246 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3349 Folklorico II: Primary [0-6]

Continuing study of fundamentals of Folklorico dance technique. **Prerequisites:** Grade of B or better in DANC 2349 or permission of instructor.

DANC 3250 Folklorico II: Secondary [0-3]

Continuing study of fundamentals of Folklorico dance technique. **Prerequisites:** Grade of B or better in DANC 2250 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 3353 Flamenco II: Primary [0-6]

Continuing study of fundamentals of Flamenco dance

technique. **Prerequisites:** Grade of B or better in DANC 2353 or permission of instructor.

DANC 3254 Flamenco II: Secondary [0-3]

Continuing study of Flamenco dance. **Prerequisites:** Grade of B or better in DANC 2254 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

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. **Prerequisites:** 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. **Prerequisites:** DANC 3310.

DANC 3313 World Dance [3-0]

Inquiry into dance forms and cultural contexts in diverse world cultures. **Prerequisites:** DANC 3308. There is a \$6 activity fee.

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; concurrent enrollment in DANC 3121

DANC 4302 Senior Project [3-0]

The production of senior choreographic work or research project for formal presentation. **Prerequisites:** Permission of instructor and DANC 3302.

DANC 3302 Choreography II [3-0]

Study of space use, group design and emotional content in dance-making, leading to the production of original dance work for formal/informal presentation. **Prerequisites:** DANC 3301.

DANC 4341 Ballet III [0-6]

Continuing study of ballet technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3341 or permission of instructor.

DANC 4242 Ballet III [0-3]
Continuing study of ballet technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3242 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 4345 Modern Dance III [0-6]
Continuing study of modern dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3345 or permission of instructor.

DANC 4246 Modern Dance III [0-3]
Continuing study of modern dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3246 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 4349 Folklorico III: Primary [0-6]
Continuing study of Folkloric dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3349 or permission of instructor.

DANC 4250 Folklorico III: Secondary [0-3]
Continuing study of Folkloric dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3250 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 4353 Flamenco III: Primary [0-6]
Continuing study of Flamenco dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3353 or permission of instructor.

DANC 4254 Flamenco III: Secondary [0-3]
Continuing study of Flamenco dance technique with a strong emphasis on performing skills and styles. **Prerequisites:** Grade of B or better in DANC 3253 or permission of instructor. May be repeated for credit. There is a \$6 activity fee.

DANC 4309 Dance Theory [3-0]
as scheduled
Technical and aesthetic theories and practices related to the training of dancers.
Prerequisites: Grade of B or better in DANC 3241 and DANC 3245.

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, DANC 4311, DANC 4312, EDUC 4301 and EDUC 4302.

ENGLISH

ENG 0301 Reading Writing Studio [3-0]
English 0301 is designed as a supplement to English 1301-Rhetoric and Composition 1 for students who did not pass state required readiness tests for college level reading and writing. The class supports English 1301 goals with added time and attention to student development of effective strategies in reading, rhetoric, and composition related to critical thinking, communication, teamwork, and personal responsibility. Does not count toward hours for graduation or in the computation of hours attempted or earned. A course grade will be recorded as Pass (PR) or No Pass (NPR). English 0301 is a non-credit course.

ENG 1301 Rhetoric & Composition I [3-0]
(Texas Common Course Number is ENGL 1301)
as scheduled
English 1301 is designed to help students become more effective and confident writers as well as more active and engaged readers of complex texts. To do this, students will engage in a variety of writing projects which will help them become more reflective writers who are better able to revise their work to meet the needs of a given writing situation. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) **Prerequisites:** Satisfactory scores on English portion of ACT test and THEA examination or ENG 1320.

ENG 1302 Rhetoric and Composition II [3-0]
(Texas Common Course Number is ENGL 1302)
as scheduled
English 1302 is designed to teach students how to initiate inquiry, engage in meaningful research, and produce effective researched arguments. To do this, students will get experience with primary and secondary research methods, engage in a variety of writing projects, and create at least one major research project. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) **Prerequisites:** A grade of C or better in ENG 1301 or ENGL 1387.

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 (Honors Plan) [3-0]

as scheduled

Study and practice of writing effectively, with emphasis on expository writing and the research paper. **Prerequisites:** Admission to the Honors Studies Program or by invitation.

ENG 1388 Rhetoric and Literature (Honors Plan) [3-0]

as scheduled

Study and practice of writing effectively/interpreting literature. Emphasis on critical analysis of essays, fiction and poetry. **Prerequisites:** ENGL 1387 or by invitation.

ENG 2300 Introduction to Literature [3-0]

(Texas Common Course Number is ENGL 2341.)

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. **Prerequisites:** 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. **Prerequisites:** 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 2321.)

as scheduled

Emphasis on critical methods of reading, writing and thinking; at least three genres and three authors considered. **Prerequisites:** 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. **Prerequisites:** Minimum grade 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. **Prerequisites:** 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 a English or communication course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** (for English credit): Minimum grade of C in six hours of required freshman English.

ENG 2387 Readings in World Literature (Honors Plan) [3-0]

as scheduled

A study of selected works from the literature of Greece, Rome and Medieval Europe. **Prerequisites:** Admission to Honors Studies or by invitation.

ENG 2388 Readings in World Literature (Honors Plan) [3-0]

as scheduled

A study of selected works of Western literature from Renaissance through modern writers. **Prerequisites:** Admission to Honors Studies or by invitation.

ENG 3300 Introduction to Language Studies [3-0]

as scheduled

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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. **Prerequisites:** 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.

Prerequisites: 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 a English or communication course in satisfying degree requirements. Credit may be received for only one course.

Prerequisites: 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. **Prerequisites:** 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.

Prerequisites: Nine hours of English.

ENG 3314 Hemingway

as scheduled

A study of Hemingway's novels and short stories, especially those about Spain and Cuba. **Prerequisites:** Nine hours of English.

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. Equivalent Course: FILM 3315 may be counted as a English or Film course in satisfying degree requirements. Credit may be received for

only one course. **Prerequisites:** None.

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 media. Equivalent Course: FILM 3316 may be counted as a English or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

Prerequisites: None.

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. **Prerequisites:** Nine hours of English.

ENG 3318 Multi-cultural Autobiography [3-0]

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 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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 a English or communication course in satisfying degree requirements. Credit may be received for only one

course. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

ENG 3325 Children's/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. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

ENG 3332 Survey of English Literature [3-0]

as scheduled

A chronological study of the principal authors, works and trends in English literature from pre-Romantic poetry to the 20th century. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

ENG 3351 19th Century American Literature [3-0]

as scheduled

This courses covers the long 19th century (1789-1914) of American literature with special emphasis on the American Renaissance, American Realism, Regionalism, and/or Naturalism.

Prerequisites: Nine hours of English.

ENG 3369 English Renaissance Literature [3-0]

as scheduled

Covers the prose, poetry, and drama of the Renaissance period in England (1485-1660). **Prerequisites:** Nine hours of English.

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.

Prerequisites: 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.

Prerequisites: Nine hours of English.

ENG 4301 Shakespeare [3-0]

as scheduled

A study of representative comedies, histories, romances and tragedies. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

ENG 4309 Chaucer [3-0]

as scheduled

A study of selected works of the 14th century English poet. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

ENG 4311 Topics in Single Author [3-0]

as scheduled

A study of the representative literary works of a single author. Topic to be chosen by instructor. Course may be repeated when topic varies. **Prerequisites:** Nine hours of English.

ENG 4312 Milton [3-0]

as scheduled

A study of the major poems and selected prose and minor poetry. **Prerequisites:** 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. Equivalent course: FILM 4313 may be counted as a English or Film Studies course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** 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.
Prerequisites: Nine hours of English.

ENG 4315 Literature and Psychoanalysis [3-0]

as scheduled

This course pursues an investigation of literary topics from the perspective of psychology and psychic formations with special focus on a variety of issues relating to madness, identity, and culture.

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. **Prerequisites:** 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. Equivalent course: FILM 4317 may be counted as a English or Film Studies course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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.

Prerequisites: Nine hours of English.

ENG 4325 Composition Techniques [3-0]

as scheduled

A study of advanced composition techniques, including theories and methods of teaching composition skills.

Prerequisites: 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

ENG 4329 Practical Applications in ESL [3-0]

as scheduled

Study of how theories, variables and second language acquisition issues are applied into research, classroom, and administrative settings with a focus on communicative language techniques for the ESL professional who desires to encourage student's maintenance of the first language and culture. **Prerequisite(s):** ENG 4328 or permission of instructor

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. **Prerequisites:** Nine hours of English.

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). **Prerequisites:** Nine hours of English.

ENG 4332 Writing for Lawyers [3-0]

as scheduled

This course is designed as a practical introduction to the types of writing students will encounter in a law school and the legal profession. Students will be exposed to the various audiences that they will face in the legal profession: clients, opponents, other lawyers, law professors, judges and the general public. They will also learn the basic genres that lawyers write in: case briefs, client letters, inter-office memoranda, contracts and trial briefs. **Prerequisites:** Nine hours of English.

ENG 4334 Advanced Creative Writing Poetry [3-0]

A workshop course devoted to the craft of poetry.

ENG 4335 Workshop in Playwriting [3-0]

as scheduled

An undergraduate course in creative writing, specifically writing plays. Students may learn to write monologues, scenes, 10-minute plays, and one act plays, critique each other's work, read 10-minute plays written by professional playwrights, and produce their own plays on campus.

Prerequisites: ENG 3336 or permission of instructor

ENG 4336 Advanced Creative Writing [3-0]

as scheduled

A workshop course devoted to the crafts of poetry and/or prose. **Prerequisites:** 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. **Prerequisites:** Nine hours of English.

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. **Prerequisites:** Nine hours of English.

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.

Prerequisites: Nine hours of English.

ENG 4390 Special Topics in Film Studies [3-0]

as scheduled

Study of film from the perspective of a particular movement, genre, director, theme, or stylistic technique. May be repeated once when the topic varies. Equivalent Course: ENG 4390 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one

course. **Prerequisites:** None.

ENG 4399 Independent Study [3-0]

as scheduled

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 professor directing the courses. **Prerequisites:** Nine hours of English.

FILM STUDIES

FILM 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. Equivalent Course: POLS 3301 may be counted as a Film Studies or Political Science course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** POLS 2313 and POLS 2314.

FILM 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. Equivalent Course: ENG 3315 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 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 media. Equivalent Course: ENG 3316 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one course.

Prerequisites: None.

FILM 3325 History and Significance of the Motion Picture [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. Equivalent Course: COMM 3325 may be counted as a Film Studies or Communication course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 3326 American Film Genre [3-0]

as scheduled

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 influenced their development in positive and negative terms. Equivalent Course: COMM 3326 may be counted as a Film Studies or Communication course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 3331 Philosophy of Film [3-0]
as scheduled

Examines philosophical issues through the lens of film. Possible topics include image and reality, representation and culture, beauty politics, morality and aesthetic theory. Equivalent Course: PHIL 3331 may be counted as a Film Studies or Philosophy course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 4313 Topics on 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. Equivalent Course: ENG 4313 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 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. Equivalent Course: ENG 4317 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 4357 History of Mexican Cinema [3-0]
from 1896 to the Present

as scheduled
This course examines the cultural and commercial development of the Mexican film industry. Both texts as well as films are used to understand this art and the extent to which it reflects values and issues of importance to Mexicans. Equivalent Course: HIST 4357 may be counted as a Film Studies or History course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

FILM 4390 Special Topics in Film [3-0]
as scheduled

Study of film from the perspective of a particular movement, genre, director, theme, or stylistic technique. May be repeated once when the topic varies. Equivalent Course: ENG 4390 may be counted as a Film Studies or English course in satisfying degree requirements. Credit may be received for only one course. **Prerequisites:** None.

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** FREN 2321.

FREN 3321 French Composition I [3-0]

as scheduled
Practice in writing expository, narrative and descriptive prose.

Prerequisites: FREN 2322.

FREN 3322 French Composition II [3-0]

as scheduled

Practice in writing critical appreciations of selected literary works. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** FREN 2322 or equivalent.

FREN 4339 Special Topics [3-0]

as scheduled

Special topics from the field of French language and literature. **Prerequisites:** FREN 3321.

GERMAN

GERM 1331 Beginning German I [3-0]

(Texas Common Course Number is GERM 1311.)

fall, spring

A study of the essentials of German grammar, pronunciation, elementary conversation and prose reading.

GERM 1332 Beginning German II [3-0]

(Texas Common Course Number is GERM 1312.)

fall, spring

A continuation of German 1331, focusing on German grammar, pronunciation, elementary conversation and prose reading.

Prerequisites: GERM 1331.

GERM 2331 Intermediate German I [3-0]

(Texas Common Course Number is GERM 2311.)

fall, spring

A study of more complex patterns of German grammar and prose reading to facilitate written and oral communications.

Prerequisites: GERM 1332.

GERM 2332 Intermediate German II [3-0]

(Texas Common Course Number is GERM 2312.)

fall, spring

A study of more complex patterns of German grammar and prose reading to facilitate written and oral communication.

Prerequisites: GERM 2331.

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 I [3-0]
(Texas Common Course Number is HIST 2311.)
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 II [3-0]
(Texas Common Course Number is HIST 2312.)
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 (Honors Plan) [3-0]
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. **Prerequisites:** Admission to Honors Studies or by invitation.

HIST 2388 American Heritage II (Honors Plan) [3-0]
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.
Prerequisites: 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Six hours of history.

HIST 3304 Indians North America [3-0]
as scheduled
To explore the diverse nature of Native American cultures at the time of European contact. In this class students will see how ethnographers, ethno historians, and historians have recorded the lifeways of contemporary aboriginal societies and have reconstructed their prehistoric past. Consideration will be given to the impact of European contact and how that has altered “Western” images of the North American Indian. Women and men will be equally considered in order to give a balanced view of the richness of these cultures. Equivalent course: ANTH 3304, a student may receive credit in only one course. **Prerequisites:** Six hours of history or ANTH 1323 or ANTH 1342

HIST 3305 Great Discoveries in Archaeology [3-0]
as scheduled
This course examines many of the most famous archaeological discoveries of the past century that have shed light on humans and their culture, human origins, world history and the development of human behavior. “Popular” assumptions about these finds will be evaluated in light of current anthropological theories and within the historical, context of the era in which they were found in order to discern a more accurate knowledge of the past. Equivalent course: ANTH 3305; a student may receive credit in only one course. **Prerequisites:** Six hours of History or ANTH 1323 or ANTH 1342

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 end with the Seven Years War and its consequences for Atlantic America. **Prerequisites:** 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. **Prerequisites:** HIST 3313 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. **Prerequisites:** Six hours of history.

HIST 3331 Mexico from the Pre-Conquest To the Present [3-0]
as scheduled
This course examines the broad themes and major events of Mexican history from the first settled communities of the indigenous peoples to the present. Four areas will be studied: pre-conquest, colonial, national and modern. Primary emphasis will be placed on the modern period.

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.

This class includes a substantial historiographical writing assessment.
Prerequisites: 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. **Prerequisites:** Six hours of history.

HIST 3334 Pre-Conquest Mexico and Central 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. **Prerequisites:** 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. **Prerequisites:** Six hours of history.

HIST 3340 Early Modern Europe [3-0]
as scheduled
A lecture course on early modern Europe. Basic themes concerning the history of early modern Europe starting with the Black Death of the late Middle Ages and ending with the close of the Napoleonic age will be covered. Historical themes for this course include the Renaissance, Reformation, Wars of Religion, Scientific Revolution, Enlightenment, French Revolution, and Napoleonic era. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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 3345 Introduction to East Asian History I: To 1600 [3-0]

as scheduled

A survey of the political and cultural history of East Asia through 1600. We will examine the historical development of the states and cultures of the modern nations of China, Korea and Japan, as well as the interactions between these cultures from the emergence of agricultural societies through the 17th century and the first contacts with Western European societies.

HIST 3346 Introduction to East Asian History II: 1600 to the Present [3-0]

as scheduled

A survey of the history of East Asia from the early modern foundation of "traditional" East Asian society, through the formation of the modern nation-states of China, Korea and Japan and their integration into a world political and economic system dominated by Western imperialism, to the reemergence of East Asia as one of the most dynamic regions in contemporary world culture and political-economy.

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. **Prerequisites:** 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 and 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 and 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 and 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. **Prerequisites:** 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 and 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. **Prerequisites:** 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 century, 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. **Prerequisites:** 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 and 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. **Prerequisites:** HIST 2313 and HIST 2314.

HIST 3390 History of the Ottoman Empire [3-0]

as scheduled

The course will focus on the history, civilization, and historiography of the Ottoman Empire. Along with its key economic, political and social developments, the course will cover the structure of this multi-ethnic and multi-religious empire, its various systems over the centuries, and the Ottoman cultural and political influence on Europe.

HIST 3391 History of Modern Japan [3-0]

as scheduled

A political, economic and cultural history of Japan from the early modern period to the present. Topics of emphasis include the modern legacy of Japanese cultural traditions, the creation of the modern Japanese state, the history of Japanese imperialism and Japan's relations with the rest of Asia, and the post-WWII relationship with the United States.

HIST 3392 History of Modern China [3-0]

as scheduled

A political, economic and cultural history of China from the late imperial period to the present. Topics of emphasis include the Opium War and the impact of Western Imperialism, the history of the Chinese revolution, the People's Republic of China in the Cold War, Chinese economic reform and the contemporary "Rise of China."

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.

Prerequisites: HIST 2313; HIST 2314

HIST 4307 Shipwrecks, Pirates and the Sea: An Introduction to Maritime Archaeology and History [3-0]

as scheduled

Maritime archaeology is a profession combining traditional fields and extensive practical experience. Anthropology, history, archaeology, geography and related sciences provide the theoretical and practical methodology with which maritime sites are found, tested and interpreted. This course is designed to provide students with the field's background, range and relevant examples involving both history and archaeology.

Equivalent course: ANTH 4307; a student may receive credit in only one course.

Prerequisites: Three hours from any of the following areas: anthropology, economics, psychology or sociology, or consent of instructor

HIST 4308 Conquistadors and Indian Chiefs of the Borderlands: A Comparative Colonialism of northern New Spain [3-0]

as scheduled

This course covers Spanish and Native American interactions in what is today the Southeastern United States, Texas and

California. Emphasis will be placed on how the social and natural environment was changed in these areas. Examination of these changes will be done through the documentary and archaeological records.

Equivalent course: ANTH 4308; a student may receive credit in only one course. **Prerequisites:** Three hours from any of the following areas: anthropology, economics, psychology or sociology, or consent of instructor.

**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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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 backlash 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 4334 History of the Old South [3-0]

as scheduled

This course covers the history of the American South from the period prior to European exploration/colonization through the Secession Crisis and the beginning of the Civil War. Themes include the interaction of Native American and European societies; competition between European empires for territory; the introduction of unfree labor; the development of African American slavery; the role of women in southern society; the economics of staple-crop agriculture; and the participation of southerners in politics.

**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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Six hours of history with HIST 3333 recommended.

HIST 4357 History of Mexican Cinema from 1896 to the Present [3-0]

as scheduled

This course examines the cultural and commercial development of the Mexican film industry. Both texts as well as films are used to understand this art and the extent to which it reflects values and issues of importance to Mexicans. Equivalent Course: FILM 4357; may be counted as History or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

Prerequisite(s): None

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 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Nine hours of history, including either 2331 or 2332.

HIST 4399 Senior Research Seminar [3-0]

as scheduled
Students enrolled in HIST 4399 will undertake in-depth research and analysis into a specific historical period or issue, including a study of the relevant historiography. Students enrolled in HIST 4399 will produce a formal research paper, with at least one major revision, and will assist other students in the class to revise and refine their papers. **Prerequisites:** 18 hours of advanced (3000/4000 level) history, which must include HIST 3332. 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
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

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 century, 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.

LAMS 4391 Latin American Philosophy: Special Topics [3-0]

as scheduled
This course will study different issues, themes, or figures in the field of Latin American Philosophy. Content will vary according to instructor expertise and student interest. may be repeated twice for a total of nine credit hours as long as content of the course is significantly different.
Prerequisite(s): None
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.

MEXICAN AMERICAN STUDIES

MAS 2301 Introduction to Mexican American Studies [3-0]

As Scheduled
An introduction to the field of Mexican American/Chican@ Studies from its inception to the present. A transdisciplinary survey designed to introduce students to the cultural, economic, educational, historical, political, epistemological, and social aspects of the Chican@ experience. These experiences will be analyzed with particular focus on issues of gender, language, race, sexuality and social justice.

MAS 4300 Learning and Reflective Service [3-0]

As Scheduled
Through this service learning course, students will have the opportunity to engage with community based organizations and/or projects committed to social justice for the Mexican American/Chican@ and Latin@ communities. The students' participation will be driven by the needs of the community. The course itself will be co-constructed by the students,

the members of the community who are involved in the organization and/or project, and the instructor. Course may be taken multiple times for a maximum number of 6 hrs.

MAS 4392 Special Topics in Mexican American Studies [3-0]

As Scheduled

A seminar designed for focused study of a single topic of importance in the field of Mexican American/Chican@ Studies. (May be repeated three times for credit as topic varies)

MODERN/ CLASSICAL LITERATURE

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.

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 1181 Applied Music Composition [5-0]
as scheduled
This course consists of private instruction in the concentration of the student's area of expertise (instrumental, vocal or composition). Credit for the course is earned on the basis of one weekly half-hour applied lesson and the minimum expectation for the student to practice this skill one hour every day. Each course may be repeated four times for credit.
Prerequisite(s): None

MUS 1183 Applied Recital Collaboration [5-0]
as scheduled
This course consists of private instruction with a collaborative pianist in preparation for a recital presentation. Credit for the course is earned on the basis of one weekly half-hour applied recital collaboration lesson and the minimum expectation for the student to practice this skill one hour every day. Each course may be repeated four times for credit.
Prerequisites: Student must be a Music Major or a Music Minor.

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 Non-Major [5-0]
Private instruction in the concentration of the student's area of expertise (instrumental, vocal, or composition). Credit for the course is earned on the basis of one weekly half-hour applied lesson and the minimum expectation for the student to practice this skill one hour every day. Each course may be repeated four times for credit

- | | | |
|-----|------------|---------------------------------|
| MUS | 1131, 3132 | Applied Piano - Non Major |
| MUS | 1133, 3134 | Applied Voice - Non Major |
| MUS | 1135, 3136 | Applied Percussion - Non Major |
| MUS | 1137, 3138 | Applied Harp - Non Major |
| MUS | 1141, 3142 | Applied Trumpet - Non Major |
| MUS | 1143, 3144 | Applied French Horn - Non Major |
| MUS | 1145, 3146 | Applied Trombone - Non Major |
| MUS | 1147, 3148 | Applied Baritone - Non Major |
| MUS | 1149, 3150 | Applied Tuba - Non Major |
| MUS | 1161, 3162 | Applied Violin - Non Major |
| MUS | 1163, 3164 | Applied Viola - Non Major |
| MUS | 1165, 3166 | Applied Cello - Non Major |
| MUS | 1167, 3168 | Applied Bass - Non Major |
| MUS | 1169, 3170 | Applied Guitar - Non Major |

MUS	1171, 3172	Applied Flute - Non Major
MUS	1173, 3174	Applied Oboe - Non Major
MUS	1175, 3176	Applied Clarinet - Non Major
MUS	1177, 3178	Applied Saxophone - Non Major
MUS	1179, 3180	Applied Bassoon - Non Major

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]

(Texas Common Course Number is MUS 1306.)

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]

(Texas Common Course Number is MUS 1190.)

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]
(Texas Common Course Number is MUS 1311.)
fall, spring
This course will include a study of standard notation, meter types, conducting gestures, tonality, intervals, scales, modes, key signatures, moveable do 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]
(Texas Common Course Number is MUS 1312.)
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 2281 Applied Music Composition [1-0]
as scheduled
This course consists of private instruction in the area of Music Composition. Credit for the course is earned on the basis of one weekly one-hour applied lesson and the minimum expectation for the student to practice this skill two hours every day. The principles of composition will be approached through traditional forms (variation, sonata) and through the imitation of specific 20th-century styles. **Prerequisites:** MUS 2214 and MUS 2115.

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]
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]
1105 [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 3111 Instrumental Pedagogy [1-0]
fall, spring
Explores the methods, materials, and objectives of effective instrumental pedagogy.
Prerequisite: MUS 3214 with a grade of C or higher.

MUS 3113 Aural Skills III [1-0]
fall
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.

MUS 3115 Aural Skills IV [1-0]
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.

MUS 3118 Piano Repertoire [1-0]
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.

MUS 3119 Woodwind Repertoire [1-0]
fall, spring
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.

MUS 3120 String Repertoire [1-0]
fall, spring
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:** 4

semesters of applied lessons (MUS 12XX) with a grade of C or higher.

MUS 3122 Choral Repertoire [1-0]

fall, odd-numbered years

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. **Prerequisite:** 4 semesters of applied lessons (MUS 12XX) with a grade of C or higher

MUS 3123 Brass Repertoire [1-0]

fall, spring

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 3124 Percussion Repertoire [1-0]

fall, spring

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 3125 Vocal Pedagogy [1-0]

spring, odd-numbered years

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 3182 Applied Music Composition [.5-0]

as scheduled

This course consists of private instruction in the concentration of the student's area of expertise (instrumental, vocal or composition). Credit for the course is earned on the basis of one weekly half-hour applied lesson and the minimum expectation for the student to practice this skill one hour every day. Each course may be repeated four times for credit.

Prerequisite(s): MUS 1181

MUS 3184 Applied Recital Collaboration [.5-0]

as scheduled

This course consists of private instruction with a collaborative pianist in preparation for a recital presentation. Credit for the course is earned on the basis of one weekly half-hour applied recital collaboration lesson and the minimum expectation for the student to practice this skill one hour every day. Each course may be repeated four times for credit.

Prerequisite: Student must be a Music Major or a Music Minor

MUS 3186 Applied Junior Recital [.5-0]

as scheduled

This course consists of private instruction with the specific Intent to prepare a "junior recital". A junior recital is a

departmental requirement for the bachelor of music degree for students majoring in music performance/applied music. Credit for the course is earned on the basis of one weekly half-hour applied recital preparation lesson, the minimum expectation for the student to practice this skill one hour every day, and a successful presentation of a music recital.

Prerequisite: Student must be Music Major or a Music Minor.

MUS 3207 Instrumental Conducting [2-0]

fall, spring

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 3208 Jazz Ensemble [2-0] **1207 [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 3209 Choral Conducting [2-0]

fall, odd-numbered years

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 variation forms, rondo, sonata forms, song form and concerto form. **Prerequisite:** Music Theory III.

MUS 3216 Elementary Music [2-0]

spring

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, even-numbered years

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 3282 Applied Music Composition [1-0]

as scheduled

This course consists of private instruction in the area of Music Composition. Credit for the course is earned on the basis of one weekly one-hour applied lesson and the minimum expectation for the student to practice this skill two hours every day. The principles of composition will be approached through traditional forms (variation, sonata) and through the imitation of specific 20th-century styles.

Prerequisite(s): MUS 2281

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 4186 Applied Senior Recital [1.5-0]

as scheduled

This course consists of private instruction with the specific intent to prepare a "senior recital". A senior recital is a departmental requirement for the bachelor of music degree for

students majoring in music education or music performance/applied music. Credit for the course is earned on the basis of one weekly half-hour applied recital preparation lesson, the minimum expectation for the student to practice this skill one hour every day, and a successful presentation of a music recital.

Prerequisite(s): Student must be a Music Major or a Music Minor.

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

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 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 1330 World Religions [3-0]

as scheduled

Religion is intimately involved in the ways that people come to know themselves, each other, and the world around them. World Religions examines topics such as: how sacred stories provide people with a worldview; how religious claims and values shape and legitimize social structures and behavior; how various types of rituals function; and how, ultimately, religion serves as a reality-defining institution. These topics are studied in the light of religions such as Judaism, Christianity, Islam, Hinduism, Buddhism, and the traditional religions of Africa and North America.

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 2360 Introduction to Religious Literature [3-0]

as scheduled

This course is a survey of literary and historical narrative texts from the Hebrew and Christian scriptures, the Koran, Hindu Vedas, mystical and devotional literature, the Book of Mormon and the other sacred writings. An emphasis will be placed on discussions of the art of religious narrative, the major themes of sacred stories, and the historical setting of the various texts. This will include analysis of cultural frameworks within which such religious literature emerged, and the way the religious texts have influenced cultural practices and beliefs.

Prerequisite(s): None

PHIL 2370 Introduction to Asian Philosophy [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.

Prerequisite(s): None

PHIL 2371 Introduction to Christianity [3-0]

as scheduled

Whether you are a skeptic or a believer, an insider or an outsider to the tradition, Christianity is a powerful influence in your world. Chances are, though, that you don't know much about how it got to be that way. What are Christianity's leading ideas, what has shaped its history, and what are the continuing controversies in which it is involved? This course will explore these questions through primary source readings, discussion, and films. The evolution of doctrine, worship and social thought will be examined in a variety of traditions--Roman Catholic, Orthodox, and Protestant--and in a variety of historical contexts, ranging from the world of the earliest followers of Jesus to contemporary theological trends.

Prerequisite(s): None

PHIL 2372 Introduction to Judaism [3-0]

as scheduled

Judaism is not just Christianity without Christ, but a vital religious tradition in its own right. Grounded in the Hebrew Bible and the ongoing interpretation of sacred texts, Judaism has continued to grow. This introductory course covers some

basics of religious practice (prayer, Torah study, observing the Sabbath and holy days, keeping kosher, etc.) while considering issues about Jewish identity in changing contexts. Judaism encompasses the spiritual aspirations and intellectual challenges of people who claim to be covenanted as they have spread out across the globe and as they have returned to the land of Israel.

Prerequisite(s): None

PHIL 2373 Introduction to Islam [3-0]

as scheduled

This course will examine the religion of Islam: from its faith, practices, and sectarian splintering, through its expansion outside its original home to a status as a world religion, and consideration of its contemporary institutions and position in world societies throughout Asia, Europe, and the Americas.

PHIL 2380 Introduction to 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 may include Mayan and Aztec Philosophy, Iberian Scholasticism, Latin American Positivism, Liberation Theology and/or Philosophy, Latin American Feminism, and Hispanic/Latino/a Identity.

Prerequisite(s): None

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 2395 Environmental Ethics [3-0]

as scheduled

This course will address the application of moral theories and ethical principles to environmental issues and problems. Topics covered may include the nature and extent of human responsibility for the environment, philosophical analysis of the concepts of "nature" and "natural", whether nature and the environment is intrinsically or merely instrumentally valuable, the nature and extent of our responsibilities to future generations, and whether entities other than humans have moral rights.

Prerequisite(s): None

PHIL 3301 Perspectives on Science and Math [3-0]

fall, spring, summer

This course examines a selection of notable episodes in the history of science and mathematics. Episodes examined may include mathematics and science in Antiquity, Medieval medicine, alchemy, Galileo's conflict with the Catholic Church, Isaac Newton's formulation of the laws of motion, Charles Darwin's proposal of the theory of evolution by natural selection, the development of the atomic bomb, the development of modern logic, the development of non-Euclidian geometry, and the discovery of the double helix structure of DNA.

Prerequisites: UTCH 1101, UTCH 1102, MATH 1340 or concurrent enrollment in MATH 1340.

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 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. Equivalent Course: FILM 3331; may be counted as Philosophy or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

Prerequisite(s): None

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 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 4321	Topics in Religion and Science	[3-0]
as scheduled This course seeks to survey the main issues in the interaction between science and religion, beginning with a comparison of the tasks of scientific and theological investigation and discourse, and looking at models of the interaction between the two, with concrete historical examples of each. In addition, the course will explore in further detail some of the major points of intersection between religion and science, including: physics, metaphysics and cosmology, biological evolution and the assessment of its religious significance by different traditions; models of God popular among scientists and those living in a scientific age (theism, pantheism, panentheism); and ethical issues raised by developments in science and technology. Prerequisite(s): None		

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.

PHIL 4391 Latin American Philosophy: Special Topics [3-0]
as scheduled
This course will study different issues, themes, or figures in the field of Latin American Philosophy. Content will vary according to instructor expertise and student interest. May be repeated for a total of nine credit hours as long as the content of the courses is significantly different.
Prerequisite(s): None

PORTUGUESE

PORT 1341 Beginning Portuguese I [3-0]
(Texas Common Course Number is PORT 1311.)
fall, spring, summer I
A study of the essentials of Portuguese grammar, punctuation, elementary conversation and prose reading.
Prerequisite(s): None

PORT 1342 Beginning Portuguese II [3-0]
(Texas Common Course Number is PORT 1312.)
fall, spring, summer I
A continuation of PORT 1341, elementary conversation and prose reading.
Prerequisite(s): PORT 1341

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

SPANISH

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 1312.)
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 2317 Intermediate Spanish for the Health Professions I [3-0]
Fall, spring
Development of medical terminology in Spanish, interpreting from English to Spanish in clinical contexts, and development of patient interviewing skills in Spanish with a focus on infectious disease.

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 3199 Spanish Internship [0-0-1]
as scheduled
Practicum in a community-based organization or agency to develop advanced use of Spanish language skills
Prerequisite: Span 2308 or Span 2318,

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 3345 Introduction to Latino/a Literature [3-0]

as scheduled

Survey of major writers, poets, and playwrights of Latina/o origin the United States. Special focus on historical conditions surrounding creative expression and its relationship to the use of language. Prerequisite: SPAN 2308.

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 3370 Introduction to Hispanic Culture and Translation [3-0]

as scheduled

Introduction to the role that translation and translators have played in the development of past and present Spanish-speaking societies. Prerequisite: SPAN 2308.

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. Prerequisites: 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. Prerequisites: 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 4343 Literature and Journalism in the Spanish Speaking World [3-0]

as scheduled

This is a Spanish undergraduate advanced course for communications and Spanish majors, but specially geared toward those students minoring in Hispanic media. Its contents pertain to the rich interaction between literature and journalism in the Spanish speaking world for the last three centuries. Students will analyze and work with journalistic pieces by well-known Spanish speaking authors from both sides of the Atlantic. **Prerequisites:** SPAN 2308.

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 health care policy. Analysis of language access measures to eliminate language barriers including medical interpreting and language concordant providers. **Prerequisites:** SPAN 2308.

SPAN 4370 Methods and Techniques of Translation [3-0]

as scheduled

Introduction to the theoretical skills necessary to translate specialized and technical documents from English to Spanish and Spanish to English. **Prerequisites:** SPAN 2308.

SPAN 4371 Comparative Structures for Translation [3-0]

as scheduled

A detailed analysis of recurring points of semantic, syntactic, and morphological divergence between Spanish and English. Translation is the medium to improve skills and to review more complex grammatical issues and deep meaning nuances. **Prerequisites:** 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.)

WOMEN'S STUDIES

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 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:** None.

WMST 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.

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 & 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 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, 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. **Prerequisites:** 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 century, 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.

Prerequisites: None

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.

Prerequisites: None.

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.

WMST 3380 Gender in U.S. Politics [3-0]

As Scheduled

This course examines multidimensional aspects of gender and political life in the U.S. 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 Gender Theory and World Politics [3-0]

As Scheduled

Students will be introduced to a variety of feminist theories and how those theories are relevant to world politics today. Topics of study may include feminist empowerment, human trafficking, political rape, sexual harassment, pornography, female genitalia mutilation, and gender inequality.

Prerequisite: POLS 2313 and POLS 2314

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: At least two cross-listed WMST advanced electives

WMST 4302 Special Topics in Women's Studies [3-0]

fall, spring,

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.

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 vis-à-vis 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. **Prerequisites:** 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. **Prerequisites:** Any statistics course.

COLLEGE OF BUSINESS ADMINISTRATION

Dr. Teofilo Ozuna,
Dean

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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 five departments: Accounting and Business Law, Computer Information Systems and Quantitative Methods, Economics and Finance, Management, and Marketing. Two associate deans, five 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 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,

management, and marketing. 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, human resource management, and marketing. Graduate programs include the Master of Business Administration (MBA), Master of Science in Accounting (MSA), Master of Accountancy (MACC), and Doctor of Philosophy (Ph.D.) in business administration.

BACHELOR OF BUSINESS ADMINISTRATION

Degree Requirements

To graduate from UTPA with a BBA degree, students must successfully complete the courses included in the core curriculum, the business foundation courses, business core courses, and the major coursework with an overall GPA of at least 2.5.

Core Curriculum Requirements	43 hours
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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 2392 Business Ethics
(required of CIS majors)

Section C. Mathematics

MATH 1340 College Algebra
or
MATH 1341 Business Algebra
or
Higher-level math

Section 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]).

Section E. Social Sciences

Group 3. Other Social Science

ECON 2301 Principles of Macroeconomics

Business Foundation Courses	16 hours
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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 Methods in Business

Business Core Courses 34 hours

In order to receive program credit toward their degree, students must earn a C or better in each of the courses in this section. Students with exceptional circumstances who desire a waiver of this rule for a class in which they received a D may appeal to the Undergraduate Curriculum Committee

BLAW	3337	Business Law I
FINA	3383	Managerial Finance
MGMT	3361	Principles of Management and Organizational Behavior
MGMT	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

International Business (select one):

ACC	3350	International Accounting
BLAW	3340	Legal Considerations of International Business
CIS	3380	Global Information Systems
ECON	3353	International Trade
FINA	4381	International Finance
INTB	3330	International Business
MGMT	4371	International Management

MARK 4330 International Marketing

Analytical Methods (select one):

ACC	3328	Quantitative Methods in Accounting
ECON	3341	Econometrics
ECON	3342	Business and Economics Forecasting
MGMT	4363	Production Management
MARK	4382	Marketing Research Analysis
QUMT	4343	Quantitative Methods for Decision Making in Business

Coursework in Professionalism and Communication

CIS	3198	Business Analysis and Communication (1 hr.) and
COMM	3313	Business and Professional Communication (3 hrs.)
		or
MGMT	3335	Communication Policy or Strategy (3 hrs.)
		or
MARK	3310	Personal Branding and Communication (3 hrs.)

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, and marketing) are described in detail under the following departmental pages of the catalog

In order to receive program credit toward their degree, students must earn a C or better in each of the courses in this section. Students with exceptional circumstances who desire a waiver of this rule for a class in which they received a D may appeal to the Undergraduate Curriculum Committee

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 2.5 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 UT 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 59 hours of coursework with at least a 2.0 2.50 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
COMM	1302	Introduction to Communication or
COMM	1303	Presentational Speaking
ECON	2301	Principles of Macroeconomics
ECON	2302	Principles of Microeconomics
MATH	1342	Business Calculus or
QUMT	2342	Computational Methods in Business

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 Business Administration website or at the office of the director of undergraduate programs in the college. 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 and/or the associate dean for undergraduate education dean of the College of Business Administration.

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) 665-2481, 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
MGMT	3361	Principles of Management and Organizational Behavior
MARK	3371	Principles of Marketing

*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:

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, and marketing) are

described in detail under the following departmental pages of the catalog.

CIS	2301	Business Information Technologies (Course # chg. In process: CIS 3301)
CIS	2308	Introduction to Business Programming (Course # chg. In process: CIS 3308)

NOTE: All CIS core and elective courses have CIS 3301 or CIS 3308 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 and 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

MGMT	4352	Family and the Small Business
MGMT	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:*

MGMT	3362	Human Resource Management
MGMT	3365	Compensation
MGMT	3366	Recruitment and Selection
MGMT	367	Organizational Training and Development
MGMT	4361	Organization Behavior Electives

(select one):

MGMT	3300	Internship in Management* (must involve a position in HRM)
MGMT	3335	Communication Policy and Strategy
MGMT	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 Marketing 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 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 a 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
- Accounting Society
- American Marketing Association - Student Chapter
- Association for Information Technology Professionals
- Beta Gamma Sigma, a national honor society for business administration majors
- Collegiate Entrepreneurs' Organization
- Economics Society
- Financial Management Association
- Insurance and Financial Planning Association
- MBA Association
- 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. 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.

ACCOUNTING AND BUSINESS LAW

Dr. Jan Smolarski,
Department Chair

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Akindayomi, Akinloye, Assistant Professor
Anabila, Andrew A., Assistant Professor
Atamian, Rubik, Associate Professor
Darcy, John, Associate Professor
Ganguli, Gouranga, Professor
Gonzalez, Deborah, Lecturer
Moyes, Glen D., Professor
Pena, Jaime, Lecturer
Smolarski, Jan M., Associate Professor
Young, Randall Frederick, Assistant Professor
Whang, Eun Y., 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 in Accounting (MSA), 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. It is

the responsibility of the student to ascertain that the selected courses count toward both graduation and the uniform CPA license and examination.

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 pgs. 181 - 186 of College of Business Administration section. Accounting majors must have an average of at least 2.5 in all accounting courses taken in order to graduate.

Accounting Major	31 27 hours
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Required Courses	15 hours
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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 taking 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 pgs. 182 - 187 in the Business Administration section.

Business Core 34 hours

BLAW	3337	Business Law I
CIS	3198	Business Analysis and Communication
COMM	3313	Business and Professional Communication
		or
MGM	3335	Communication Policy or Strategy
		or

MARK	3310	Personal Branding and Communication
FINA	3383	Managerial Finance
MGMT	3361	Principles of Management and Organizational Behavior
MGMT	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	4329	Corporate and Partnership Taxation
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 Accounting
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Graduate Course Electives 6 hours

(Elect two courses from the MBA program not included in this program.)

TOTAL HOURS	
for combined BBA and MSA degrees	151-154 hours

** A student making an A in BLAW 3337 is exempt from MACC 6333.

*** A student making an A 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

Dr. Kai S. Koong,
Department Chair

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Andoh-Baidoo, Francis, Assistant Professor
Hughes, Jerald, Associate Professor
Koong, Kai, Professor, Department Chair
Liu, Lai, Professor
Midha, Vishal, Assistant Professor
Osatuyi, Babajide, Assistant Professor
Sung, Sam, Senior Lecturer
Sun, Jun, Associate Professor
Tsai, Ping-Sing, Lecturer
Villarreal, Marco, Lecturer
Wang, Bin, Associate Professor
Xiao, Nan, Assistant Professor

Quantitative Methods

Qin, Hong, Assistant Professor
Oh, Dongyop, 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 pg. 181 in the above College of Business Administration section.

Computer Information Systems Major	27 hours
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Required Courses	18 hours
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CIS	3301	Business Information Technologies
CIS	3308	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	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 pg. **195** (CIS) and **206** (QUMT).

ECONOMICS AND FINANCE

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Economics

Boudreau, James, Assistant Professor
Contreras, Salvador, Assistant Professor
Damianov, Damian, Associate Professor
Dávila, Alberto, Professor; Department Chair
Escobari, Diego A., Assistant Professor
Huang, Wanling, Assistant Professor
Mollick, Andre V., Associate Professor
Mora, Marie T., Professor
Ozuna Jr., Teofilo, Professor and Dean
Saucedo, Eduardo, Lecturer

Finance

Brown, Cynthia, Professor and
Vice Provost for Graduate Studies
Chen, Haiwei, Associate Professor
Desai, Chintal, Assistant Professor

Jackson, Dave O., Associate Professor
Lovell, Kenneth, Lecturer
Martin, Terrance, Assistant Professor
Ngo, Thanh, Assistant Professor
Rabarison, Monika, Assistant Professor
Serrano, Alejandro, Assistant Professor
Vidal, Jorge, Lecturer

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 43 hours

Foundations Courses

ECON	2302	Principles of Microeconomics (with grade of C or higher)
COMM	1302	Introduction to Communication (with grade of C or higher)
	or	
COMM	1303	Presentational Speaking (with grade of C or higher)
POLS	2334	Political Economy
QUMT	2342	Computational Methods in Business
	or	
MATH/STAT	2330	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 pgs. 182-187 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 pgs. 182 - 187 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 1 8 hours
(with approval of advisor)
Six hours of upper-level FINA courses.
Twelve hours of upper-level courses.

Students may double major in Economics and Finance. See an advisor for an approved degree plan.

Course Descriptions

A listing of courses offered by the Department of Economics and Finance can be found on pgs. 199 (ECON) and 200 (FINA).

MANAGEMENT

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Full-Time Faculty

Abebe, Michael, Assistant Professor
Gonzalez, Jorge, Assistant Professor
Hou, Wanrong, Assistant Professor
Jung, Joo, Associate Professor
Kaynak, Hale, Professor
Matthews, Linda, Professor
Sargent, John, Professor
Sturges, David L., Associate Professor
Wang, Lei, Assistant Professor
Welbourne, Jennifer, Assistant Professor
Wu, Sibin, Associate Professor

General Overview

The Department of Management offers the Bachelor of Business Administration (BBA) in management.

Degree Requirements

Every candidate for the BBA degree with a major in management must fulfill the following requirements in addition to the core curriculum, business foundation and business core requirements described on pgs. 182 in the above College of Business Administration section:

Management Major	27 hours
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Required Courses	9 hours
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MGMT 3362	Human Resource Management
MGMT 4361	Organizational Behavior
MGMT 4366	Small Business Management

The remaining hours should be selected from the following:	18 hours
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MGMT 3300	Internship in Management
MGMT 3333	Digital Media for Management and Marketing
MGMT 3335	Communication Policy and Strategy
MGMT 3364	Organizational Theory
MGMT 3365	Compensation
MGMT 3366	Recruitment and Selection
MGMT 3367	Organizational Training and Development
MGMT 4300	Topics in Management
MGMT 4363	Production Management*
MGMT 4364	Business and Society
MGMT 4365	Quality Management
MGMT 4367	Purchasing and Supply Management
MGMT 4370	Project Management
MGMT 4371	International Management
MGMT 4399	Business Consulting

*Must be selected if not taken to fulfill the analytical course requirement within the business core.

Course Descriptions

A listing of courses offered by the Department of Management can be found on pg. 204 (MGMT) and 200 (INTB).

MARKETING

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Reto, Assistant Professor
Firat, A. Fuat, Professor
Garza, Joe, Lecturer
Guo, Chiquan, Associate Professor
Minor, Michael, Professor
Schembri, Sharon, Assistant Professor
Sheng, Xiaojing, Assistant Professor
Simpson, Penny, Professor
Vasquez-Parraga, Arturo, Professor
Weisstein, Fei Lee, Assistant Professor
Zolfagharian, Mohammadali, Assistant Professor

General Overview

The Department of Marketing offers the Bachelor of Business Administration (BBA) in marketing.

Degree Requirements

Every candidate for the BBA degree with a major in marketing must fulfill the following requirements in addition to the core curriculum, business foundation and business core requirements described on pg. 182 in the above College of Business Administration section:

Marketing Major	27 hours
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Required Courses	15 hours
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MARK 3372	Consumer Behavior
MARK 3380	Product and Brand Strategy
MARK 3390	Pricing Strategies and Tactics
MARK 4372	Integrated Marketing Communications
MARK 4389	Marketing Strategy

Elective Courses	12 hours
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Students can choose their electives so that they work toward completing one or more of the following track certificates. To qualify for a track certificate, satisfy all of the requirements of that certificate as specified below.

A. Certificate in Service and Customer Relations –
Take four of the following courses (12 hours):

- MARK 3300** Internship in Marketing
- MARK 3375** Retailing
- MARK 3376** Professional Selling
- MARK 3378** e-Marketing
- MARK 3379** Services Marketing
- MARK 3395** Music Marketing
- MARK 4373** Sales Management

B. Certificate in Markets and Strategy -
Take four of the following courses (12 hours):

- 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

C. Certificate in Entertainment Business –
Complete steps 1 through 4 below (15 Hours):

1. Either COMM 3324 Cinematography OR COMM 3403 TV News Production OR COMM 4301 Directing
2. MARK 3371 Principles of Marketing
3. Either MARK 3320 OR MARK 3395 Music Marketing
4. Select 2 of the following courses:
 - a. The second choice in No. 3 above
 - b. **MARK 3372** Consumer Behavior
(marketing majors cannot select this option)
 - c. **MARK 3376** Professional Selling
 - d. **MARK 3379** Services Marketing
 - e. **MARK 4310** Fashion Design & Popular Culture
 - f. **MARK 3300** Marketing Internship in Entertainment Industry

D. Certificate in International Business –
Complete steps 1 through 4 below (15 Hours):

1. INTB 3330 International Business
Select 2 of the following 3 courses:
 - a. **MARK 4365** International Competitiveness
 - b. **MARK 4330** International Marketing
 - c. **MGMT 4371** International Management
2. Select 2 other internationally-oriented electives such as
 - a. The third choice in No. 2 above
 - b. **MARK 3385** Hispanic Marketing
 - c. **ECON 3353** International Trade
 - d. **FINA 4381** International Finance
 - e. **ACC 3350** International Accounting
 - f. **MARK 3300** Marketing Internship in

international business

Course Descriptions

A listing of courses offered by the Department of Marketing can be found on pg. 201.

ACCOUNTING

ACC 2301 Introduction to Financial Accounting [3-0]

(Texas Common Course Number is ACCT 2301)
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 or MATH 1440 with a grade of C or better.

ACC 2302 Fundamentals of Managerial Accounting [3-0]

(Texas Common Course Number is ACCT 2302)
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. **Prerequisites:** 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:** Junior or senior 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 2302 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. **Prerequisites:** 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, and detailed study of current assets and current

liabilities. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** ACC 2302 with a grade of C or better.

ACC 3325 Fund Accounting [3-0]

fall, spring
The special features of fund accounting as applied to not-for-profit entities, municipalities, school districts, and other governmental units. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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, 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 2342 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. **Prerequisites:** 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 socioeconomic 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** ACC 3323.

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** BLAW 3337.

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 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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:** MGMT 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 for E-commerce [3-0]

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 objected-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 and Development [3-0]

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.

CIS 4397 Health Computer Information Systems [3-0]

as scheduled

This course provides the knowledge about fundamentals of Health Computer Information Systems and the role of Computer Information Systems in efficient operation of healthcare organizations. The course specifically focuses on: Evolution of HCIS components and basic HCIS functions, technology infrastructure for healthcare organizations, basic concepts such as EHR, HIE, CPOE, and CDSS, HCIS standards such as HIPPA, HL7, and DICOM, strategic information systems planning for healthcare organizations, systems analysis and project management, information security issues, and role of HCIS professionals in health organizations.

CIS 4399 Selected Topics in Health Computer Information Systems [3-0]

as scheduled

An in-depth analysis of contemporary health computer

information systems (HCIS) topics with emphasis on electronic health records (EHR) and health information exchange (HIE). Course may be repeated twice if topic varies.

ECONOMICS

ECON 1301 Introduction to Economics [3-0]

(Texas Common Course Number is ECON 1301)

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).

Prerequisites: 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 and 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 equivalent).

ECON 3341 Econometrics [3-0]

fall

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 1342 or QUMT 2342.

ECON 3342 Business and Economics Forecasting [3-0]

spring

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 and ECON 2302, MATH 1342 or QUMT 2342.

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 equivalent).

ECON 3351 Macroeconomic Theory [3-0]

fall,

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]

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. **Prerequisites:** ECON 1301 or ECON 2302 (or equivalent).
- 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]
- as scheduled
- 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]
- as scheduled
- 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 with a grade of C or better and may not be taken concurrently.
- 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 equivalent).
- 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 equivalent).
- ECON 4340**

Introduction to Mathematical Economics

[3-0]
- as scheduled
- 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]
- as scheduled
- 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]
- as scheduled
- 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
- FINANCE**
- FINA 3382**

Investment Principles

[3-0]
- fall, spring, summer
- 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]
- fall, spring summer
- 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]
- fall
- 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]

fall, spring

The dynamics of financial markets and their interaction with the suppliers of funds, particularly financial intermediaries, are studied in this course. **Prerequisites:** ECON 3381 with a grade of D or better and may not be taken concurrently.

FINA 3387 Real Estate Finance [3-0]

spring

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. **Prerequisites:** FINA 3383 with a grade of D or better and may not be taken concurrently or consent of instructor.

FINA 3388 Financial Planning [3-0]

as scheduled

Financial planning process; client/planner interactions; time value of money applications; personal financial statements development and assessment; cash flow and debt management; asset acquisition; education planning; planning elements of risk management; investment planning; and retirement planning; special needs planning review; integrating planning recommendations; financial planning ethics review; overview of practice management concepts. **Prerequisites:** FINA 3383.

FINA 3389 Retirement Planning [3-0]

as scheduled

Retirement planning focuses on preparation for retirement. The course will include the importance of retirement planning, an evaluation of the client's needs, an understanding of Social Security and Medicare, and qualified and non-qualified retirement plans.

Prerequisites: FINA 3383.**FINA 3391 Small Business Financial Management [3-0]**

fall

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 MGMT 3361 and three hours of economics.**FINA 3393 Entrepreneurial Finance [3-0]**

spring

This course provides an in-depth analysis of venture financing and techniques to manage entrepreneurial risk. **Prerequisites:** ACC 2301, MGMT 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]

fall, spring

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. **Prerequisites:** 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. **Prerequisites:** FINA 3382.

FINA 4383 Advanced Managerial Finance [3-0]

fall, spring, summer

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:** ECON 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.

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 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.

to selected cultures and practices to include Asia, Western Europe and Latin America. **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:** MGMT 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 U.S. Imports Customs Regulations [3-0]

spring

Examine the duties and responsibilities of the licensed custom broker. Topics include process for customs clearance including appraisalment, 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.

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:** Junior or Senior standing and approval by both department chair and employer providing internship experience.

MARK 3310 Personal Branding and Communication [3-0]

as scheduled

This course encourages and empowers students to see and carry themselves as personal brands. The concepts, theories, and skills covered in this course enable students to develop a professional disposition toward their careers, communicate effectively in written and oral forms, work successfully in teams, and acquire leadership qualities. The course is highly experiential and students are exposed to several hands-on skill development assignments.

Prerequisite(s): Junior Standing

MARK 3320 Sports & Event Marketing [3-0]

fall, spring, summer

This course is an introduction to the marketing aspects of event businesses with particular attention paid to sports as business and entertainment. Students learn about the roles of fans, sponsors, and media in marketing event/sports. When possible, the course incorporates a hands-on project requiring students to work in team(s) to plan and carry out an event with/for a local sports team.

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 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 3390 Pricing Strategies and Tactics [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 4310 Fashion Design & Popular Culture [3-0]

fall, spring, summer

This course covers the production, consumption and regulation of fashion industry products and services. It familiarizes students with the fashion industry's links to popular national cultures, subcultures, advertising, and marketing. It details the process of fashion design (idea generation and screening, concept development and testing, business analysis, market testing, and commercialization and pricing).

MARK 4320 Product & Service Design [3-0]

fall, spring, summer

This course is about the generation and screening of ideas that motivate and inform the design of products and services. In idea generation, the course covers theories and methods that can help marketers to (a) understand and capture the end-users' communicated needs and wants and subconscious habits, and (b) determine how such understanding can be used to improve the features and standards of products and services. In the idea screening stage, the course familiarizes students with concepts and tools to evaluate the generated ideas in terms of technical feasibility, economic justification, and sustainability concerns.

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 4365 International Competitiveness [3-0]

fall, spring, summer

International dimensions of competition for global markets, with emphasis on manufacturing, production and operations management as tools of international competitive strategy.

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 4385 Hispanic Marketing [3-0]

as scheduled

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. May not receive credit for both MARK 3385 & MARK 4385.

Prerequisite(s): MARK 3371

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.

MANAGEMENT

MGMT 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 employee 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: Junior or senior standing and approval by both department chair and employer providing internship experience.

MGMT 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: MGMT 3361 and MARK 3371.

MGMT 3335 Communication Policy and Strategy [3-0]

as scheduled

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.

MGMT 3361 Principles of Management and Organizational Behavior [3-0]

as scheduled

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:** Junior level standing.

MGMT 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: MGMT3361 or consent of instructor.

MGMT 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:** MGMT 3361.

MGMT 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, MGMT 3361 or consent of instructor.

MGMT 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:** MGMT 3361 or consent of instructor.

MGMT 3367 Organizational Training and Development [3-0]

as scheduled

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.

MGMT 4300 Topics in Management [3-0]

as scheduled

Special topics in management as selected by the instructor. Course can be repeated as topics change.

Prerequisite: MGMT3361 or consent of instructor

MGMT 4350 Negotiations [3-0]

As scheduled

This course is designed to improve your ability to negotiate successfully. This will be achieved through developing your understanding of the principles, strategies, and tactics of effective negotiation and professional relationship management. You will learn to identify and assess the variables in negotiations, develop sound negotiation planning techniques, and develop an understanding of various strategies and tactics to use as you ethically resolve conflicts, transactional and interpersonal differences. The course methodology is highly participative and relies on experiential learning, feedback and an openness to change and development.

MGMT 4351 Family and the Small Business [3-0]

As scheduled

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, or an existing family small business.

Prerequisite(s): Junior Level standing

MGMT 4352 Family and the Small Business [3-0]

as scheduled

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.

Prerequisite: Junior level standing

MGMT 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:** Junior level standing.

MGMT 4362 Business and Sustainability [3-0]

As scheduled

This course is designed to introduce students to the concept of sustainability and sustainable business models. All three aspects of sustainability -- economic, social and environmental -- are emphasized. The goal is to educate students on how businesses can integrate the three aspects of sustainability and

incorporate them into strategy and operations.

MGMT 4363 Production Management [3-0]

as scheduled

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 MGMT 3361.

MGMT 4364 Business and Society [3-0]

as scheduled

The behavior and social responsibilities of business firms and other business institutions in modern society to include current cultural and ethical issues. **Prerequisite:** Junior level standing.

MGMT 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.

MGMT 4366 Foundations of Entrepreneurship [3-0]

as scheduled

This course focuses on the special characteristics of entrepreneurial venture and small businesses. Emphasis will be placed on the identification of entrepreneurial opportunities and the essential function of management in the first year of operation of a new, growth-oriented business. **Prerequisite:** Upper division standing or consent of the department.

MGMT 4367 Purchasing and Supply Chain Management [3-0]

as scheduled

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.

MGMT 4369 Strategic Management [3-0]

as scheduled

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:** MGMT 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.

MGMT 4370 Project Management [3-0]

as scheduled

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:** Junior level standing

MGMT 4371 International Management [3-0]

as scheduled

Course focuses on organizational issues including planning, organizing, staffing, communicating and controlling in an international environment and 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 may also be included. Various cultures and practices will be referenced.

Prerequisite(s): Junior Level standing

MGMT 4399 Business Consulting [3-0]

as scheduled

This course is an on-site evaluation of an operating business by a student or students serving in the role of 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:** Upper division standing and consent of the department.

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 2342.

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 2342.

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.

COLLEGE OF EDUCATION

Dr. Salvador Hector Ochoa,
Dean

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General Overview

The College of Education 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, health, early care and early childhood studies and Bachelor of Interdisciplinary Studies with undergraduate certification in EC-6 generalist with a specialization in special education, early childhood education, and bilingual education. 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 UT 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 is to prepare professional educators who will effectively respond to the educational opportunities and challenges in serving diverse communities of South Texas and a global society.

The vision of the College of Education is to become a national learner-centered research college that prepares professionals with the knowledge and practical skills to transform schools and communities to participate in a global society.

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 3.240.

Students should be aware that SBEC may adopt new rules or amendments to or repeal of existing rules. Therefore, certification policies and requirements have the potential to change during the course of the student's 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) 665-3420 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

All certification programs require state mandated testing. Tests for certification are called TExES (Texas Examinations of Educator Standards). Individuals shall take the appropriate TExES exams that correspond with the degree/certification plan they are following and achieve the satisfactory level of performance set forth by the Texas Education Agency.

Successful completion and awarding of a degree with certification (Elementary, Middle School, High School, or All-Level) does not guarantee nor is it a sufficient condition to be recommended for certification. Students must meet all program and applicable state requirements in order to be recommended for certification.

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.

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. Full policy is available in Teacher Education Program Handbooks.

Admission to Teacher Education and Student Teaching Program

Admission to Teacher Education

Admission to Teacher Education is required for all undergraduate students seeking teacher certification and enrolling in courses designated as EDCI, EDBE, EDEC, EDUC, READ, and SPED. 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 in order to be considered for admission. Applicants should receive early advisement and follow application and degree plan requirements closely. Admission 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. Courses taken in the Summer II semester will not be considered for the Fall semester application. Please see the application for a list of all requirements. Application packets and related information are available on the web and in the Office of Teacher Certification and Admission Services, EDCC 3.240, (956) 665-3420.

Minimum Required Scores on THEA/ TASP or Accuplacer

MINIMUM THEA/ACCUPLACER SCORES ARE DUE THE DAY OF THE APPLICATION DEADLINE					
READING		MATH		WRITING	
THEA/ TASP	Accu- placer	THEA/ TASP	Accu- placer	THEA/ TASP	Accu- placer
240	82	230	82	240	80 w/5 writing sample, or any score w/6 writing sample

IMPORTANT NOTE:

To ensure proper score reporting, submit a copy of your THEA/ ACCUPLACER scores with your application. If exam was taken at another institution, please request a copy of your THEA/ ACCUPLACER scores, on official letterhead, sealed in an envelope and submit with your application.

Changes in Admission Policy in 2014

Several new Teacher Education Admission requirements will be in effect spring, summer and fall 2014.

Effective for spring 2014 admission, students who earned an ACT score of 19 or higher may be admitted to the Teacher Education Program without having to take THEA or Accuplacer.

Effective summer 2014, the minimum THEA Reading score will be 260. All middle school, high school and all-level teacher education program candidates will be required to earn 60 semester hours applicable to degree plan as a condition for admission with a minimum of 12 hours in the respective major

and 6 hours in the respective minor. Effective fall 2014, students following Generalist EC-6, Bilingual Generalist and Special Education degree plans will require completion of EDCI 3330 for admission; Bilingual Generalist EC-6 will require SPAN 3304 as well.

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 54-60 hours must be completed on degree plan

The applicant is required to complete 54-60 hours on their degree plan in order to be admitted. Hours completed includes core, major, and minor area. Grades for elective courses or courses not list 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.

- At least 60 or 54 hours must be completed on degree plan depending on the student's core curriculum.
- Elementary EC-6 applicants must complete 60 hours on their degree plan
- 48 hour core curriculum, the student is required to complete 60 hours on their degree plan
- 43 hour core curriculum, the student is required to complete 54 hours on their degree plan hours completedtranscript

Admission to Student Teaching Program

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 Student Teaching Program admission requirements below are subject to change due to new state agency regulations or College of Education/ University-approved policy.

The Office of Field Experiences (OFE) will review all teacher candidates for admission into 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. 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 EDCI 4399 and EDCI 4398 or EDUC 4611).
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 Student Teaching Program

Upon acceptance to Student Teaching Program, the student successfully meeting all program requirements, as stated in Student Teaching Handbook, will continue on provisional status as a student teacher intern. During Student Teaching, 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/her status. While on probationary status, if the student does not demonstrate progress, he/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 Student Teaching Program. The student has the right to appeal at any phase of this process.

Completion of Student Teaching Program is a condition for meeting Texas teacher certification requirements. Students may attempt Student Teaching a maximum of two times. If a student does not successfully complete the second Student Teaching 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 Student Teaching Program

Students will need to complete student teaching courses with a C or better as a condition for meeting Texas Teacher Certification requirements. For elementary teacher education program, student teaching courses are EDCI 4399 and EDCI 4398 and for middle school, high school and all-level program, student teaching course is EDUC 4611.

Graduation Requirements for EC-6 Teacher Candidates

Students following the EC-6 degree plan must earn a C or better on all interdisciplinary, professional education and specialization coursework specified in their degree plan.

Policy and Advisory Groups

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 College of Education has established the COE Advisory Committee.

CURRICULUM AND INSTRUCTION

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Department Chair

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Farruggio, Peter, Associate Professor
García, Criselda, Associate Professor
González, Irasema, Assistant Professor
Guerrero, Michael, Associate Professor
Medrano, Hilda, Professor
Murillo Benjumea, Luz, Assistant Professor
Neuman, Jacob, Assistant Professor
Ostorga, Alcione, Associate Professor
Peña, Carmen, Associate Professor
Reyes, María Elena, Professor
Ruíz-Escalante, José, Professor
Schall, Janine, Associate Professor
Shirvani, Hossein, Associate Professor
Tevis, Martha, Professor
Whitacre, Michael, Assistant Professor

Emeritus Faculty

Gratz, Elizabeth

BACHELOR OF
INTERDISICIPLINARY 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 Education
- Early Childhood Education
- Special Education

Teacher Education 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.

Core Curriculum Requirements

Communication 6 hrs.

- Six hours of freshman English (ENG 1301 and ENG 1302) Science and Mathematics 11 hrs.
- Eight hours of a laboratory science (PSCI 1421 and PSCI 1422)
- Three hours of college algebra or higher-level mathematics (MATH 1340)

Humanities 9 hrs.

- Three hours of sophomore literature (ENG 2XXX)
- Three hours from the art (ART 1301)
- Three hours of philosophy (PHIL 1305)

Social Sciences 15 hrs.

- 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 hrs.

- 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 18 hrs.
(including nine advanced)

Interdisciplinary Area 42 hrs.
(combination of subjects)

Professional Development Sequence 24 hrs.

Academic Specializations for
Elementary Certification Elementary
(Grades EC-6) Certification

The following specializations are available and require a minimum of 18 hours:

- Bilingual Generalist EC-6
- Generalist EC-6
- Special Education Generalist EC-6

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 Biliteracy
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	Dynamics of Play and Play Environments in Childhood (Pk-6)
EDEC	4391	Foundations of Early Childhood Education
EDEC	4392	Guidance of Young Children
EDEC	4394	Principles of Curriculum Design in Early Childhood (PK-3)
		Development in Early Childhood
EDEC	4393	Cross-Cultural Perspectives in

EDBE 4304 Elementary School Settings
Development of Bilingualism

Specialization: Special Education (EC-12)

SPED 3320 Survey of Exceptionalities
SPED 3322 Literacy Intervention for Students
with Disabilities
SPED 3323 Behavioral Interventions
SPED 3324 Related Services
SPED 3325 Curriculum Based Evaluations
EDBE 4304 Development of Bilingualism

Academic Specialization in Bilingual Education

Interdisciplinary Area 42 hrs.

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 1401 General Biology I or SCIE 4370
BIOL 1402 General Biology II
BIOL 2406 Environmental Biology
GEOL 1401 Physical Geology

Other Major Requirements:

HIST 3330 A General Survey of the
History of Texas
MUS 3311 Essential Elements of Music I
SPED 3321 Inclusion Issues

Specialization: Bilingual Education 18 hrs.

EDBE 3315 The Bilingual Curriculum in the
Content Areas
EDBE 3316 The Development of Biliteracy
EDBE 3322 Foundations of Bilingual Education

EDBE 3324 English as a Second Language
EDBE 4304 The Development of Bilingualism
SPAN 3304 Advanced Spanish Composition

Academic Specialization in Special Education

Interdisciplinary Area 42 hrs.

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 1401 General Biology I or SCIE 4370
BIOL 1402 General Biology II
BIOL 2406 Environmental Biology
GEOL 1401 Physical Geology

Other Major Requirements:

HIST 3330 A General Survey of the
History of Texas
MUS 3311 Essential Elements of Music I
SPED 3321 Inclusion Issues

Specialization: Special Education 18 hrs.

SPED 3320 Survey of Exceptionalities
SPED 3322 Literacy Intervention for Students
with Disabilities
SPED 3323 Behavioral Interventions
SPED 3324 Related Services
SPED 3325 Curriculum Based Evaluations
EDBE 4304 Development of Bilingualism

Academic Specialization in Early Childhood

Interdisciplinary Area 42 hrs.

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

Mathematics:

EMAT	2306	Foundations of Mathematics I
EMAT	2307	Foundations of Mathematics II
EMAT	3308	Foundations of Mathematics III

Science:

BIOL	1401	General Biology I or SCIE 4370
BIOL	1402	General Biology II
BIOL	2406	Environmental Biology
GEOL	1401	Physical Geology

Other Major Requirements:

HIST	3330	A General Survey of the History of Texas
MUS	3311	Essential Elements of Music I
SPED	3321	Inclusion Issues

Specialization: Early Childhood 18 hrs.

EDEC	4314	Dynamics of Play and Play Environments in Childhood (Pre-K-6)
EDEC	4391	Foundations of Early Childhood Education
EDEC	4392	Guidance of Young Children
EDEC	4394	Principles of Curriculum Design In Early Childhood (Pre-K-3) Development in Early Childhood
EDEC	4393	Cross-Cultural Perspectives in Elementary School Settings
EDBE	4304	Development of Bilingualism

Professional Education
(Certification Coursework) Elementary

Bilingual Education: 24 hrs.

EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,
EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

Special Education: 24 hrs.

EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,
EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

Early Childhood: 24 hrs.

EDCI 3330, EDCI 3331, EDCI 3332, EDCI 3333,
EDCI 3334, EDCI 3335, EDCI 4398, EDCI 4399

Certification Requirements

For Middle School (4-8)

For the prospective middle school teacher, UT 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

In addition to the core curriculum coursework and the major course requirements, the following requirements apply to students seeking Middle School Texas Teacher Certificate:

Professional Development 18 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

Additional Requirements 6 hrs.

READ	3325	Cognitive Development and Reading Comprehension
READ	3326	Reading Across the Curriculum

Content Areas

*ELA/Reading 4-8 Program Students may need additional READ courses if specified on degree plan.

For High School (7-12)

For the prospective high school teacher, UT 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

- Journalism
- Life Science
- Physical Science
- Chemistry
- Social Studies
- Mathematics
- Dance
- Speech Communication

In addition to the core curriculum coursework and the major course requirements, the following requirements apply to students seeking High School Texas Teacher Certificate:

Professional Development 18 hrs.

EDUC 4301	Teaching and Learning in Contemporary Schools
EDUC 4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303	Teaching Special Populations in Inclusive Classrooms
EDUC 4304	Instructional Planning and Assessment
EDUC 4611	Student Teaching

Additional Requirements 3 hrs.

READ 4351	Learning through Literacy in the Content Areas
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Note: Students interested in the UTeach-Pan American should see the College of Science and Mathematics section of the catalog for course requirements.

Requirements for All-Level Certificates

For the prospective all-level (EC-12) teacher, UT 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 EC-12 certification in the following teaching fields:

Health
Physical Education
Art
Music
Spanish
Theater Arts

In addition to the core curriculum coursework and the major course requirements, the following requirements apply to students seeking EC-12 Teacher Certificates:

Professional Development 18 hrs.

EDUC 4301	Teaching and Learning in
------------------	--------------------------

EDUC 4302	Contemporary Schools
EDUC 4303	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4304	Teaching Special Populations in Inclusive Classrooms
EDUC 4611	Instructional Planning and Assessment
EDUC 4611	Student Teaching

Additional Requirements 3 hrs.

READ 4351	Learning through Literacy the Content Areas
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Bachelor of Science Degree in Early Care and Early Childhood Studies (Non-Certified)

Core Curriculum Requirements 43 hrs.

Major Requirements 30 hrs.

ECEC 2301	Foundations of EC & ECS & Development Theories
ECED 2302	EC & ECS Profession, Standards & Ethics
ECEC 3303	Early Literacy Development during Early Childhood
ECEC 3304	Curriculum in EC & ECS Settings: Science, Math & Technology
ECEC 3305	Role of Play in EC & ECS
ECEC 4306	Aesthetic Education in EC & ECS
ECEC 3307	Knowledge & Skills of Preschool Teachers
ECEC 3308	Quality & Developmentally Appropriate Environments for Ages 0-5
ECEC 2309	Family Care & Education in the Community
ECEC 3310	Quality Programs for Infants & Toddlers

Other Concentrations of Study 26 hrs.

ECEC 4311	Observing, Assessing and Guiding Behavior of Young Children
ECEC 4312	Administration of Child Development Centers
ECEC 4313	Thinking Critically Multicultural Perspectives
ECEC 4314	Internship in Early Care & Early Childhood
ACC 2301	Introduction to Financial Accounting
ACC 2302	Fundamentals of Managerial Accounting
or	
MGMT 4366	Small Business Management
ENG 4321	Fundamentals of Language Development

EDBE	4304	The Development of Bilingualism
SPED	3302	Theories of Learning Disabilities or
SPED	3320	Survey of Exceptionalities

Electives 21 hrs.

*9 hours must be advanced level

- COMD 1310
- COMM 1302 or 1303 or COMM 3308
- DIET 2351 or NURS 2301
- EDBE 3316
- ENG 3325 or ENG 4328 or ENG 4331
- HLTH 1352 or HLTH 1354, or HLTH 2352 or HLTH 3372
- KIN 1354 or KIN 3395
- MUS 3311
- PSY 3332 or PSY 3337
- READ 3323
- SPAN 1301 or SPAN 1303 or SPAN 2307 or SPAN 2308
- SPED 1305 or Open Elective
- SOCW 1313 or SOCW 3321

Course Descriptions

A listing of courses offered by the College of Education can be found in the Course Descriptions section beginning on pg. 220.

HEALTH AND KINESIOLOGY

Dr. Layne Jorgensen,
Department Chair

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Rocha, Nancy, Lecturer
Romero, Zasha, Lecturer
Ryman, Jeannean, Lecturer
Trinidad, Mary Lou, Lecturer
Wang, Lin, Associate Professor, Graduate Coordinator
Yoo, Sojin, 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 also offered.

Mission

The mission of the Department of Health and Kinesiology is congruous with that of UT 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 Kinesiology Programs

Students majoring in Kinesiology must be formally admitted to their respective programs [certified or non-certified] by enrolling in and passing Kin 3340 with a 'C' or better prior to enrolling in 3000- or 4000-level KIN courses. Additional Admission criteria are available in the health and kinesiology office located at HPE 1, Room 1.110.

Admission to Health Programs

Students majoring in Health must be formally admitted to their respective programs [certified or non-certified] by enrolling in and passing Hlth 3350 with a 'C' or better prior to enrolling in 3000- or 4000-level Hlth courses. Additional Admission criteria are 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 pg. 97 of this catalog EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown below.

In addition a GPA of 2.50 or higher in the University core curriculum must be met.

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. Students taking 3000 or 4000 level Health courses must have Junior Status [60+ hours].

HEALTH ALL-LEVEL MAJOR (CERTIFIED)

Required Courses 24 hrs.

HLTH	1354	Safety and First Aid
HLTH	2352	Personal Health and Wellness
HLTH	2373	Growth, Development and Fitness
HLTH	350	Organization of the Health Program
HLTH	3371	Drugs, Alcohol and Tobacco
HLTH	3372	Nutrition and Health

HLTH	3373	Human Sexuality
HLTH	4353	Principles of Public Health

Six hours of advanced electives 6 hrs.

TOTAL 30 hrs.

Requires an 18-hour institutional minor in a certifiable teaching area. A minimum of six hours must be advanced.

TEACHER CERTIFICATION IN HEALTH

Health major must have a GPA of 2.50 or higher and a C or better in all health courses. In addition the minor must have a GPA of 2.50 or higher and 'C's or better in the course work.

Miscellaneous Requirement 3 hrs.

READ	4351	Internship II: Learning through Literacy in the Content Areas
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Miscellaneous Electives

Nine hours of which three must be advanced to make a minimal total of 120 hours in degree plan with a minimum of

51 hours advanced 9 hrs.

Professional Education 18 hrs.

EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

Total 120 hrs.

HEALTH MAJOR (NON-CERTIFIED)

requires a minor

Required Courses 30 hrs.

KIN	1354	Safety and First Aid
HLTH	2352	Personal Health and Wellness
HLTH	3350	Organization of the Health Program
HLTH	4353	Principles of Public Health

Thirty total hours in health of which must be advanced. Students must earn a 'C' or better in all health courses. Students taking 3000 or 4000 level Health courses must have Junior Status [60+ hours].

TOTAL 30 hrs.
A health major (non-certified) requires a support area of 21 hours from the following, with a minimum of 18 hours advanced:

CRIJ 1301, CRIJ 3303, HRP 3310, KIN 3365, MARK 3371, PSY 1310, PSY 3324, REHS 2301, SOCI 3324, SOCW 2314, SOCW 3351, SOCW 4320.

TOTAL 21 hrs.

Miscellaneous Electives 9 hrs.

Nine hours of which three must be advanced to make a minimal total of 120 hours in degree plan with a minimum of 51 hours advanced.

TOTAL 120- hrs.

**HEALTH MINOR
(NON-CERTIFIED)**

- HLTH 2352** Personal Health and Wellness
- HLTH 3350** Organization of the Health Program
- HLTH 4353** Principles of Public Health

Nine hours elective in health. Students must earn a 'C' or better in all health courses. There is no certified minor in health.

Kinesiology Degree Requirement

Kinesiology majors should consult with their advisor in the department.

**KINESIOLOGY
(ALL-LEVEL MAJOR) -
CERTIFIED**

Required Courses 38 hrs.

- KIN 1202** Fitness and Wellness
- 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
- KIN 4360** Physical Education for All-level Kinesiology

Requires an 18 hour institutional minor in a certifiable teaching area. Of the 18 hours, six must be advanced; however, 12 advanced hours are recommended for a 51 hour advanced minimum.

Miscellaneous Electives 3 hrs. to make a minimal total of 120 hours in degree plan

- KIN 3377** Instructional Method for Sport Coaching
- READ 4351** Learning through Literacy in the Content Areas

**TEACHER CERTIFICATION IN
KINESIOLOGY**

Kinesiology major must have a GPA of 2.50 or higher and a C or better in kinesiology classes. In addition the minor must have a GPA of 2.50 or better and C's or better in the course work. 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 18 hrs.

- EDUC 4301** Teaching and Learning in Contemporary Schools
- EDUC 4302** Human Development and Learning Theories in the EC-12 Classroom
- EDUC 4303** Teaching Special Populations in Inclusive Classrooms
- EDUC 4304** Instructional Planning and Assessment
- EDUC 4611** Student Teaching

Total 120 hrs.

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 35 hrs.

KIN	1202	Fitness and Wellness
KIN	1351	Introduction to Kinesiology
KIN	1354	Safety and First Aid
KIN	2305	Team Sports or Kin 2315 Technical Skills for Individual Sports or Kin 2320 Movement Arts
KIN	2310	Outdoor Education
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 hrs.

Select one of the following three areas:

1. Coaching-Theory of Coaching Courses (3 hrs.)

KIN	3377	Instructional Methods for Sports Coaching
KIN	3368	Sports Psychology
KIN	3370	Strength and Conditioning
KIN	3344	Sports Officiating
KIN	4368	Kinesiology Practicum

2. Athletic Training

		Kinesiology Advanced Elective (3 hrs.)
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. If 12 hours advanced are taken in the minor, the miscellaneous advanced elective hours are not needed for a total of 51 advanced hours.

Miscellaneous electives. 7 hours of electives are needed to make a total of 120 hours in the degree plan. 7 hours

Requires an 18 hour institutional minor. If 12 hours are advanced, a total of 51 advanced hours will be on the degree plan. 18 hrs.

TOTAL 121 hrs.

MINOR IN KINESIOLOGY (NON-CERTIFIED)

Professional Kinesiology (Theory Courses) 18 hrs.

A minimum of six hours advanced. Students must earn a 'C' or better in all Kinesiology courses.

Six hours of activity classes:
KIN 1200 (or another aquatic), plus one two-hour activity plus KIN 1202. 6hrs.

TOTAL 24 hrs.

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 pgs. 221 and 226.

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.

EDUC 3301 Foundations of American Education [3-0]

fall, spring, summer I

Examination of historical and philosophical foundations of education as related to social, political, technological, and economic forces of diverse classrooms of the 21st century with special emphasis on the legal and ethical requirements of the teaching profession. May not receive credit for either EDHS 4301 and EDUC 3301, or EDAL 3301 and EDUC 3301. **Prerequisites:** Must be core complete or permission of the instructor.

All-Level Education

Middle School 4-8 Certification, High School 7-12 Certification and All-Level EC-12 Certification

EDUC 4301 Teaching and Learning in Contemporary Schools [3-0]

fall, spring, summer

Examination of historical and philosophical foundations of education as related to social, political, technological, and economic forces and diverse classrooms of the 21st century. Includes emphasis on teachers' code of ethics, state curriculum and assessments, parental involvement, and instructional technology. **Prerequisites:** Must be core complete or by permission of the instructor.

EDUC 4302 Human Development and Learning Theories in the EC-12 Classroom [3-0]

fall, spring, summer

Examination of major theories in the areas of human growth and development, cognitive and social learning theories, and motivation as they apply to the instruction and assessment of all learners in EC-12 schools. Includes emphasis on creating a productive learning environment, the integration of technology, and state requirements for state certification. This course may require field experience hours. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDUC 4303 Teaching Special Populations In Inclusive Classrooms [3-0]

fall, spring, summer

Examination of contemporary first and second language acquisition theories, research, instructional methods, and assessment of English Learners (ELs), gifted and talented students, and students with disabilities in inclusive content area classrooms. Emphasis will be placed on the use of instructional and assistive technologies. This course may require field experience hours. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDUC 4304 Instructional Planning and Assessment [3-0]

fall, spring

Examination of curriculum organization and development, instructional planning, assessment, motivation, and classroom management. Emphasis will be placed on designing learning goals and objectives with attention to student diversity and integration of technology in EC-12 settings. This course requires 30 hours of field experience in a public school. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDUC 4305 Teaching English Learners and Students with Disabilities in Inclusive Classrooms [3-0]

fall, spring, summer I

Examines the role of literacy in learning content as it emphasizes how learners use literacy strategies and technology to support learning in the content areas; specifically, how educators use teaching and assessment tools to support content learning for all learners. Emphasis is placed on student learning through integrated curriculum models.

Prerequisite(s): Admission to COE Teacher Preparation Program.

EDUC 4611 Student Teaching [3-0-3]

fall, spring

This course is designed for students in specific content areas seeking middle school, high school or all level teacher certifications. 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 12 weeks. The course includes a seminar that facilitates the intern's integration of the supervised internship experience with a focus on integrating educational theories

with professional practice in the classroom and special emphasis on the implementation of effective instruction, assessment, and classroom management.

Prerequisites: Admission to COE Teacher Preparation Program and Admission to Student Teaching by the Office of Field Experiences.

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 12 weeks. This course must be taken concurrently with EDAL 4398.

BILINGUAL EDUCATION

EDBE 3315 The Bilingual Curriculum in the Content Areas [3-0]

fall, spring, summer
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 experiences may be required. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDBE 3316 The Development of Biliteracy [3-0]

fall, spring, summer
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 biliteracy process in order to provide relevant and meaningful learning experiences for all learners. Field experiences may be required. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDBE 3322 Foundations of Bilingual Education [3-0]

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. Field experiences may be required. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDBE 3324 English as a Second Language [3-0]

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. Field experiences may be required. **Prerequisites:** Admission to COE Teacher Preparation Programs.

EDBE 4304 The Development of Bilingualism [3-0]

fall, spring, summer
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

experiences may be required. **Prerequisites:** Admission to COE Teacher Preparation Programs.

CURRICULUM AND INSTRUCTION

EDCI 1301 Introduction to the Teaching Profession [3-0]

(Texas Common Course Number is EDUC 1301.)
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.

Prerequisites: Course must be taken prior to admission into College of Education for all EC-6 Teacher Preparation programs.

EDCI 3331 Child Development and Teaching in the Elementary School [3-0]

fall, spring, summer

This field-based 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.

Prerequisites: Admission to COE Teacher Preparation Programs.

EDCI 3332 Learning, Motivation and Technology Integration in Elementary School [3-0]

fall, spring, summer

This 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. **Prerequisites:** Admission to COE Teacher Preparation Programs.

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. **Prerequisites:** 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. **Prerequisites:** Admission to the College of Education EC-6 Teacher Preparation Program.

EDCI 3335 Teaching Science and Mathematics [3-0] in the Elementary School

fall, spring, summer

This 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. **Prerequisites:** 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 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. **Prerequisites:** 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-6) [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-6) 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-6 [3-0]

fall, spring

This course is designed for students seeking elementary (EC-6) 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 12 weeks. This course must be taken concurrently with EDCI 4398.

EARLY CARE EARLY CHILDHOOD

ECEC 2301 Foundations of Early Care and Early Childhood Studies & Development Theories [3-0]

This course offers an overview of the field of Early Care and Early Education. It examines the theoretical basis for caring and teaching of all young children from birth through age five. The history, models and goals of early childhood education in relation to issues of diversity and equity will be addressed. It will serve as an introduction to professional standards and organization in early care and early education that promote quality education for all children (color, culture, language, immigrant status, poor, special needs, race and ethnicity).

Prerequisite: Completion of Core Course requirements.

ECEC 2302 Early Care Profession and Ethics [3-0]

fall

An overview of the early care and early education profession from ecological and cultural perspectives. Topics will include national and state standards, NAEYC Code of Ethics, and Models of Early Childhood Education. Advocacy and leadership for educational excellence, equity and social justice for all children will be modeled for the students

ECEC 3303 Early Literacy Development During Early Education [3-0]

fall

This course will serve to provide a foundation of professional knowledge about language and early literacy development in early childhood. Oral language development will be studied as a foundation for early literacy. Topics will include stages of oral language-development, aspects of language, theoretical perspectives of literacy and language development, emergent literacy and enhancing language and literacy. **Prerequisite(s):** Completion of Core Course requirements.

ECEC 3304 Curriculum Early Childhood Education Science Math Technology [3-0]

Spring

This course will focus on developmentally appropriate curriculum and instructional resources for early childhood programs serving young children ages 0-5. The prospective early childhood educators will study curriculum standards from NCTM, NSTA and NAEYC as basis for determining appropriate mathematics, science and technology for all young children. The processes of mathematics and science will be emphasized as significant for creating effective learning environments.

ECEC 3305 Role of Play in Young Children's Development [3-0]

Spring

This course will address the benefits and importance of play in the growth and development of all young children ages 0-5. In addition, an overview of play theories as they apply to the total development of young children will be studies. Special attention will be given to organized play experiences, developmentally appropriate learning and play-based opportunities for all young children in early care and early childhood settings.

ECEC 3307 Knowledge and Skills Preschool [3-0]

Fall

This course begins with an overview of a comprehensive interdisciplinary pedagogy that integrates developmental theory, research and practice with knowledge of children of color, poverty, immigrant, special needs, bilingual learners and children from diverse cultural and ethnic groups. In-depth studies of what teachers who are effective educators know, what they effectively teach, and how their knowledge and skills are assessed will be reviewed. Classroom management and planning for instruction will be components in this course.

Prerequisite(s): None.

ECEC 3308 Quality and Developmentally Appropriate Environments 0-5 [3-0]

Spring

This course will help prospective early childhood educators develop an understanding of the importance of early learning environments that provide children with opportunities for learning, and challenges that allow development to flourish. Students will learn to integrate early care and childhood theories, child development, up-to-date research, program standards and curriculum outcomes for designing learning environments. The role of teachers as observant facilitators and "scaffolders" of learning will be studies. **Prerequisite(s):** Completion of Core Course requirements

ECEC 3309 Young Children Family Care and Education [3-0]

Summer I

A course that incorporates different early care and education topics reflecting the changing demographics of the United

States. Emphasis will be placed on the importance of caring relationships parenting with parents and families, valuing diversity and providing culturally responsive early care and education. Current research on socio-cultural theory and its application, including integration of children from diverse backgrounds and children with special needs into groups of typically developing children will be studied. **Prerequisite(s):** Completion of Core Course.

**ECEC 4214 Internship Early Care
Early Childhood [3-0]**

Spring
This course is designed to provide prospective early childhood educators with clinical and practical experiences with children of color, second language learners, low-income children and young children with special needs. Interns will be collaborative supervised and mentored by faculty, field-based partners and mentor teachers. **Prerequisite(s):** Completion of Core Course requirements.

**ECEC 4306 Aesthetic Education in Early
Care and Early Childhood
Settings [3-0]**

Through this course, prospective early care and early educators will develop an appreciation of the arts (art, music, dance and drama) and enjoyment of other sensory experiences. They will learn to provide experiences to young children in nature and the arts, how to nurture awareness and foster appreciation of the arts. Skills for assessing and evaluating art forms will be researched and practiced. **Prerequisite:** Must meet core requirements.

**ECEC 4310 Quality Programs for Infants
and Toddlers [3-0]**

Summer I
This course will introduce students to indicators of high-quality care for infants and toddlers. Topics in this course will include: historical and theoretical basis influencing models for programs, the role of caregivers and parents, designing and managing experiences for developmental domains of infants and toddlers and the importance of indoor environments. **Prerequisite(s):** Completion of Core Course requirements

**ECEC 4311 Observe Assess and Guide
Behaviors [3-0]**

Fall
This course will focus on techniques for observation of infants and young children to assess cognition, language, social, creative, emotional and physical development in early care and early education settings, including day care and preschool. It includes assessment of culturally and linguistic diverse populations and children with special needs. An introduction to techniques to appropriately guide young children's behaviors will be included in this course. Emphasis is on guidance techniques and interventions strategies that educators can use to facilitate. **Prerequisite(s):** Completion of Core Course requirements

**ECEC 4312 Administrate and Manage Child
Development Centers [3-0]**

Fall
This course is aligned with NAEYC's Code of Ethical Conduct for Administrators and to Programs Administrators Competencies. Topics of study will include: leadership and management, program marketing, professional ethics, fiscal, personnel and facilities management, law and licensing regulations. Prospective and in-service programs owners/ administrators will learn to plan for, implement, manage, market and evaluate programs serving all young children from 0 to 5. **Prerequisite(s):** Completion of Core Course requirements

**ECEC 4313 Critical Thinking Multicultural
Child Development [3-0]**

Fall
Students will be introduced to multicultural education perspectives relating to child care and development. They will develop their critical thinking as they explore, plan and implement culturally, linguistically, and developmentally appropriate multicultural activities for infants, toddlers and preschoolers. Special emphasis will be on analyzing and selecting appropriate children's literature that reflects the diversity that every young child brings into the early care and education settings. **Prerequisite(s):** Completion of Core Course requirements

**EARLY
CHILDHOOD**

**EDEC 4314 Dynamics of Play &
Play Environments in
Childhood (PK-6) [3-0-11/2]**

fall, spring, summer I
This course provides an overview of play theories as they apply to the total development of the child. Examines the art and science of critical thinking, including analysis, synthesis, and evaluation in the fields of play, play theories, and outdoor environments through a variety of pedagogies. Special attention is given to organized play experiences through arranging and scheduling developmentally appropriate learning centers for children in the public school setting. Field experiences may be required. **Prerequisites:** Admission to the COE Teacher Preparation Program.

**EDEC 4391 Foundations of
Early Childhood Education [3-0-11/2]**

fall, spring, summer
This course addresses the theory of education of young children, issues and trends in early childhood education, including changing beliefs regarding pre-kindergarten and kindergarten programs, and relevant state and federal mandates regarding programs for young children. Field experiences may be required. **Prerequisites:** Admission to the COE Teacher Preparation Program.

EDEC 4392 Guidance of Young Children [3-0-2]

as scheduled

This course examines theoretical approaches to guidance practices appropriate to early childhood settings pre-kinder through third grade. Age-appropriate intervention strategies, observation techniques, and group management skills will be studied. Emphasis is on the positive development of a child's self esteem and positive communications with families. Field experiences may be required. **Prerequisites:** Admission to the COE Teacher Preparation Program.

EDEC 4393 Cross-Cultural Perspectives in Elementary School Settings [3-0-2]

fall, spring (and summer for endorsement only)

This course develops awareness of cultural and ethnic issues as they relate to the early childhood and elementary classroom. It addresses the contributions of diverse cultures within the society of the United States. Students will examine and analyze racism, sexism, ageism, and ability levels with the schools and the community. It also focuses on diversity among groups of people and individuals based on ethnicity, socioeconomic status, family structure, exceptionalities, language, religion, sexual orientation, and geographical area. Field experiences may be required.

Prerequisites: Admission to the COE Teacher Preparation Program.

EDEC 4394 Principles of Curriculum Design In Early Childhood (Pk-3) [3-0-2]

fall, spring (and summer for endorsement only)

This course combines a theoretical and experiential investigation of curriculum for children from birth through 8 years, with primary emphasis on prekindergarten through elementary grades. Curriculum planning and implementation; overview of research and theory related to teaching and learning of specific content areas with an emphasis on integrated approaches to early childhood curriculum will be addressed. Field experiences may be required.

Prerequisites: Admission to the COE Teacher Preparation Program.

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]
(Texas Common Course Number is PHED 1306.)

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 3370 Concepts for Health Lifestyle Promotion [3-0]

fall, spring, summer I

This course explores the scientific study of concepts that promote healthy behavior. The course framework investigates factors of health promotion including elements of individual, group and organizational behavior that affect health choices, current research findings, and methods about personal behavior. Techniques, strategies and methodologies that influence personal lifestyles, enhance health and avoid negative health consequences will be examined. The influence of corporations, economic standing, educational attainment and poverty levels to population health status will be considered. Students are expected to apply critical thinking with solutions in their research assignments.

Prerequisite(s): Junior class standing and HLTH 3350.

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.

Prerequisite: HLTH 3350.

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.

Prerequisite: HLTH 3350.

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. **Prerequisite:** HLTH 3350

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.
Prerequisite: HLTH 3350

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. **Prerequisite:** HLTH 3350

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. **Prerequisite:** HLTH 3350

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. **Prerequisite:** HLTH 3350

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.

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	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]

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).

KIN 1101 Concepts in Physical Activity and Wellness [1-0]

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]

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.

Theory Courses:

KIN 1351 Introduction to Kinesiology [3-0]

(Texas Common Course Number is PHED 1301.)

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]

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. **Prerequisite:** Health and Kinesiology Major's and Minor's only.

KIN 2301 Health-Related Physical Fitness Appraisal [3-0]

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 pg. 97 for details.)

KIN 2305 Technical Skills for Team Sports [3-0]

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:** KIN 1351.

KIN 2310 Outdoor Education [3-0]

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:** KIN 1351.

KIN 2315 Technical Skills for Individual Sports [3-0]

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:** KIN 1351.

KIN 2320 Movement Arts [3-0]

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:** KIN 1351.

3000 – 4000 Level courses require Jr/Sr status in order to enroll

KIN 3300 Theory of Football [3-0]

as scheduled

The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of football. **Prerequisite:** KIN 3340

KIN 3301 Theory of Wrestling [3-0]

fall, spring

The analysis and interpretation of coaching techniques, rules, strategies, and fundamentals of wrestling. **Prerequisite:** KIN 3340

KIN 3302 Teaching Individual Sports [1-2]

as scheduled

A study of current theories of teaching selected individual sports. Participation required. **Prerequisite:** KIN 3340

KIN 3303 Theory of Basketball [3-0]

as scheduled

The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of basketball. **Prerequisite:** KIN 3340

KIN 3304 Theory of Baseball [3-0]

as scheduled

The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of baseball. **Prerequisite:** KIN 3340

KIN 3305	Theory of Track and Field	[3-0]
as scheduled The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of track and field. Prerequisite: KIN 3340		
KIN 3310	Modified Team and Individual Sports	[1-2]
as scheduled Analysis and presentation of selected sports in a modified form appropriate for middle school students. Prerequisite: KIN 3340		
KIN 3320	Theory of Volleyball	[3-0]
as scheduled The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of volleyball. Prerequisite: KIN 3340		
KIN 3333	Theory of Soccer	[3-0]
as scheduled The analysis and interpretation of coaching techniques, rules, strategies and fundamentals of soccer. Prerequisite: KIN 3340		
KIN 3340	Kinesiology Activities for Elementary and Middle School	[3-0]
as scheduled 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). Lab fee required. Prerequisites: KIN major and admission to Teacher Education or the Kinesiology Program. There is a \$6.00 activity fee.		
KIN 3342	Lifestyle Management	[3-0]
spring 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: KIN 3340		
KIN 3344	Sports Officiating	[3-0]
fall, spring An introduction to the theories, strategies, terminology, rules and applications of officiating for various sports. Directed officiating experiences may be required. Prerequisite: KIN 3340		
KIN 3345	Biomechanics	[3-0]
as scheduled A study of the structural and mechanical factors that interact with human movement. Prerequisites: BIOL 2403 and BIOL 2404 and KIN 3340.		
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, 3353, and 3340.

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 3340 and 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 and KIN 3340.

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. Prerequisite: KIN 3340

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 and KIN 3340.

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. Prerequisite: KIN 3340

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 and KIN 3340.

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 3340, KIN 3345, KIN 3353, and admission to the program.

KIN 3377 Instructional Methods for Sport Coaching [3-0]

as scheduled

This course is designed to help prospective and current coaches develop and enhance their coaching ability. Sport skills necessary for athletes to perform at their best will be presented. Students will be exposed to a broad range of teaching techniques, instructional methods and a practical approach to enhance sport skill development and athletic performance. Students will develop a research paper on the latest coaching styles and their impact on student athletes.

Prerequisite(s): Junior class standing and KIN 3340.

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. **Prerequisite:** KIN 3340.

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. **Prerequisite:** KIN 3340

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 4 4321

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; KIN 3340 and Admission to Teacher Education

KIN 4360 Physical Education for All-Level Kinesiology [3-0]

as scheduled

This course is designed for students in all-level Kinesiology to learn strategies and practice with materials necessary to design and implement developmentally appropriate physical education curriculum. It is aligned with EC-12 Texas Essential Knowledge and Skills (TEKS) and English Language Proficiency Standards (ELPS).

Prerequisite(s): KIN 3340

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:** KIN 3340.

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.

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. This course may require field experiences. **Prerequisite(s):** Admission of COE Teacher Preparation Programs.

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. This course may require field experiences. **Prerequisite(s):** Admission to COE Teacher Preparation Programs.

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 Learning through Literacy in the Content Areas [3-0]

as scheduled
Examines the role of literacy in learning content as it emphasizes how learners use literacy strategies and technology to support learning in the content areas; specifically, how educators use teaching and assessment

tools to support content learning for all learners. Emphasis is placed on student learning through integrated curriculum models. **Prerequisite(s):** Admission to COE Teacher Preparation Program.

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. This course may require field experiences. **Prerequisite:** Admission to the College 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 postsecondary (transition) factors encountered by students with disabilities. Focus will be on how these factors affect postsecondary 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 postsecondary 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. **Prerequisites:** 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. **Prerequisites:** 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.) **Prerequisites:** SPED 1305 or consent of instructor.

UTEACH

UTCH 1101 Inquiry Approaches to Teaching [1-0]

As Scheduled

This one-hour field-based course explores teaching as a career by introducing, modeling and practicing inquiry-based science and mathematics instruction. Field- experience will be completed in an elementary public school at an upper grade level and will consist of preparing, teaching, and assessing three inquiry-based lessons. Students will be introduced to the UTeach pedagogy and technology standards. This course is open to all undergraduate students; registration priority given to freshmen/sophomore math and science majors.

Prerequisite: Criminal background check, and TB vaccine.

UTCH 1102 Inquiry-Based Lesson Design [1-0]

As Scheduled:

This one-hour field-based course focuses on the basic principles of designing, implementing and assessing inquiry-based science and mathematics instruction for the middle

school curriculum. Field experiences will be completed in a public middle school and will consist of preparing, teaching and assessing three inquiry-based lessons. Students will continue developing their UTeach portfolio. **Prerequisite(s):** UTCH- 1101

UTCH 3301 Knowing and Learning [3-0]

As Schedule:

This three-hour course introduces the cognitive, psychological and pedagogical principles of learning for effective science and mathematics instruction for all learners. Course emphasis will be on: the use of current technology for classroom learning; novice-expert transfer and understanding of subject matter; equity, diverse and exceptional learners, summative, formative, and authentic assessment; and high stakes testing. Students will develop a model of knowing and learning that will guide their future classroom practice and will continue developing their UTeach portfolio assessment. Alignment to state curriculum and pedagogy standards will be emphasized. **Prerequisite(s):** UTCH 1101 and UTCH 1102 with grade of at least C or better, or concurrent enrollment with UTCH 1101 and/or UTCH 1102 with consent of UTeach advisor

UTCH 3302 Classroom Interaction [3-0]

This three-hour field-based course focuses on how the interactions between curriculum, technology, and learning are used to produce a safe and productive learning environment for all students. The review of major instructional models and the delivery of effective instruction will be emphasized. Factors that affect instruction and learning (gender, socio-economic, language acquisition, disabilities, culture, and policy) in mathematics and science education will be discussed. This course has a field component that includes thirty (30) hours of observation and teaching in secondary school settings. Alignment of class curriculum to state curriculum, pedagogy and content will be emphasized. A second stage- UTeach portfolio review will be required. **Prerequisites:** (a) A university grade point average of at least 2.5, (b) UTCH 3301 with a grade of at least a C, or concurrent with UTCH 3301 with consent of UTEACH advisor, and (c) a positive evaluation of stage-one UTeach portfolio

UTCH 3303 Project-Based Instruction [3-0]

This three-credit-hour field-based capstone course focuses on the principles of design, instruction, classroom management, and assessment of project-based and case-based curriculum projects in mathematics and science education. Students are expected to explore authentic and meaningful questions and develop through teamwork an interdisciplinary project-based unit of instruction connecting curriculum, pedagogical content, and technology standards. This course has a field component that includes thirty (30) hours of observation and teaching in secondary school settings. Alignment to the state curriculum, pedagogy, and content standards will be emphasized. A third-stage UTeach portfolio will be required and must be approved before applying for admission to the student teaching program. **Prerequisites:** (a) A minimum grade point average of 2.50, (b) UTCH 3302 with a grade of at least a C, or concurrent enrollment with UTCH 3302 with consent of UTeach advisor, and (c) a positive evaluation of the second-stage UTeach

portfolio

UTCH 4701 Apprentice Teaching [1-0-6]

This seven-credit-hour course is designed for students in science or math seeking high school or middle school teacher certification. Apprentice teaching students will be placed in a state-accredited secondary or middle school for twelve (12) weeks under the guidance of an experienced math or science classroom teacher (mentor) and a university supervisor. The course includes a weekly seminar that facilitates the students' integration of the supervised apprentice teaching experiences and the programs professional curriculum. Topics include classroom management and time management, Instructional planning and assessment, parent-teacher communication, school culture and dynamics, legal and logistical issues affecting teaching, the final UTeach portfolio, and the state certification examinations. The final portfolio must provide evidence that the student has met state standards for teacher certification. **Prerequisites:** (a) A minimum grade point average of 2.50, (b) UTCH 3303 with a grade of at least a C, and (c) acceptance of the third-stage UTeach portfolio

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Dr. Miguel Gonzalez,
Dean

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GENERAL OVERVIEW

The College of Engineering and Computer Science is one of the fastest-growing colleges at UT Pan American, aspires to produce the technological leaders of tomorrow and further the knowledge and practice of the engineering and computer science professions nationally and internationally.

Our goal is to provide our undergraduate students with the best possible education in a stimulating research-oriented and intellectually diverse environment. Our students participate in research and are taught by faculty, who are considered some of the best and brightest in their fields. The college is comprised of the Departments of Computer Science, Electrical Engineering, Manufacturing Engineering, and Mechanical Engineering. There are also undergraduate programs in civil engineering housed in the mechanical engineering department and computer engineering housed within the electrical engineering and computer science departments.

We provide high-quality and innovative undergraduate curricula that prepare our students to be effective, contributing members of a technological society and lifelong learners. The College of Engineering and Computer Science at UT Pan American is a great place to pursue an engineering or computer science degree.

Academic Programs

The College of Engineering and Computer Science offers Bachelor of Science degrees in civil engineering, computer engineering, computer science, electrical engineering, manufacturing engineering, and mechanical engineering. Minor studies are also available in computer science, electrical engineering, manufacturing engineering, and mechanical engineering. All degree programs are accredited by ABET.

COMPUTER SCIENCE

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Full-time Faculty

Abraham, John P., Professor
Brazier, Pearl W., Professor
Chebotko, Artem, Assistant Professor
Chen, Zhixiang, Professor
Dietrich, Gustavo D., Senior Lecturer
Egle, David L., Senior Lecturer
Figueroa-Lozano, Andres, Associate Professor
Fowler, Richard H., Professor
Fu, Bin, Professor
Grabowski, Laura M., Assistant Professor
Lawrence-Fowler, Wendy A., Professor
Lian, Xiang, Assistant Professor
Reilly, Christine F., Assistant Professor
Schweller, Robert T., Associate 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 an applied and theoretical discipline, supported by the principles of science, engineering and mathematics, which has a direct and profound impact on the quality of life and society at large.

Mission

The department offers three degrees: Bachelor of Science in Computer Science (BSCS) as a broad-field major, 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). The department offers a Bachelor of Science in Computer Engineering (BSCE) in cooperation with the Department of Electrical Engineering. The department also offers 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.

*ABET, Inc., 111 Market Place, Suite 1050; Baltimore, MD 21202; telephone: (410) 347-7700

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 provides 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.

Educational Objectives

The educational objectives for the BSCS degree are to provide graduates with an understanding of social, professional and ethical considerations related to computing; preparedness to enter graduate programs in computing; an ability to be recruited for positions in high-technology companies that utilize their computing education; and an ability to acquire new knowledge in the computing discipline and to engage in lifelong learning.

Program Outcomes

Students graduating from the computer science program should demonstrate knowledge in the introductory core courses, the advanced core courses, and the advanced prescribed elective courses; an ability to work effectively in teams; and an ability to communicate effectively.

Departmental Admission Requirements

Students must have computer experience equivalent to CSCI 1201 or CSCI 1260 and must have completed or be concurrently enrolled in MATH 1340 or MATH 1440 before enrolling in CSCI 1101, 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. Advanced courses and research efforts are

supported by departmental computer laboratories.

Degree Requirements

The Department of Computer Science offers a 125-hour Bachelor of Science in Computer Science (BSCS) degree as a 47-hour broad-field major with supporting mathematics, electrical engineering and science requirements to meet CAC/ABET accreditation standards. The department offers two 20-hour minors in computer science. 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. 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 should 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 hrs.
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Complete the requirements shown in the University core curriculum requirements section shown on pg. 97 of this catalog. PHIL 2393 (Recommended) or PHIL 2390 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 1260 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	32 hrs.
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CSCI	1101	Introduction to Computer Science
CSCI	1370	Engineering Computer Science I
CSCI	1170	Engineering Computer Science I Laboratory
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 hrs.

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 hrs.

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 hrs.

ENG	3333	Technical Report Writing
COMM	1303 or COMM 1302	Presentational Speaking

Lab Science 4 hrs.

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 hrs.

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	125 hrs.
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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 pg. 236. Courses from computer science are cross-listed as CSCI and CMPE courses. Courses from electrical engineering are cross-listed as ELEE and CMPE courses.

MINOR IN COMPUTER SCIENCE

Core Courses 11 hrs.

CSCI	1101	Introduction to Computer Science
CSCI	1370	Engineering Computer Science I
CSCI	1170	Engineering Computer Science I Laboratory
CSCI	2380	Computer Science II
CSCI	3333	Algorithms and Data Structures

Designated Electives 9 hrs.

9 hours of advanced Computer Science courses.

TOTAL	20 hrs.
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MINOR IN COMPUTER SCIENCE FOR ENGINEERING MAJORS

Required Course 17 hrs.

CSCI	1101	Introduction to Computer Science
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 hrs.

Select one from the following courses:

CSCI	3340	Software Engineering I
CSCI	4333	Database Design and Implementation
CSCI	4334	Operating Systems
CSCI	4335	Computer Architecture
CSCI	4345	Computer Networks
CSCI	4350	Artificial Intelligence
CSCI	4360	Interactive Computer Graphics and Systems

TOTAL 20 hrs.

Course Descriptions

A listing of courses offered by the Department of Computer Science can be found on pg. 254.

COMPUTER ENGINEERING

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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
Brazier, Pearl, Professor
Yul Chu, Assistant Professor
Kuang, Weidong, Assistant Professor
Kumar, Sanjeev, Associate Professor
Lian, Xiang, Assistant Professor
Peng, Jun, Assistant Professor
Reilly, Christine, Assistant Professor

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 program is accredited by the Accreditation Board for Engineering and Technology (ABET)* The curriculum has been designed following the guidelines of ACM and IEEE model curricula for Computer Engineering, in anticipation of to meet *ABET standards. As a new program it is not yet accredited by ABET; however, the program will seek ABET accreditation as soon as all requirements to do so are met. The program awards a Bachelor of Science in Computer Engineering (BSCE).
*ABET, Inc., 111 Market Place, Suite 1050; Baltimore, MD 21202; telephone: (410) 347-7700

Mission/Objectives

The Computer Engineering Program is a joint program between the Department of Computer Science and the Department of Electrical Engineering. The Computer Engineering program prepares students to pursue advanced study or to enter the dynamic and interdisciplinary field that continues to experience rapid growth and impacts many aspects of human endeavor. The program is designed to provide students with a balanced perspective of hardware and software, and the analysis, design, and implementation techniques for integrated computer systems. The program has a common core of courses from computer science and electrical engineering, and advanced elective courses to provide the student with the opportunity to support individual interests and provide further depth and breadth to their degree.

In order to provide an awareness of current and emerging industrial practice, the departments will encourage students to participate in professional student organizations, internships or co-op experiences, and scholarly activities including supervised research. Faculty will be readily accessible, will continuously strive to improve and design an up-to-date curriculum, and share their enthusiasm for enhancing their knowledge and research in the computer engineering field. Graduates will:

- Have the necessary breadth and depth to be productive in the practice of computer engineering or to pursue advanced education in computer engineering.
- Have the skills to be lifelong learners, enabling them to adapt to the rapidly changing nature of the computer engineering field.
- Have an awareness of the technical, business, social, ethical, and human context of their engineering contributions.

Program Outcomes for Computer Engineering

- Students graduating from the computer engineering program should demonstrate:

(A) A knowledge of mathematics and basic sciences necessary for the analysis and design of computer software, hardware and systems.

(B) An understanding of the principles of computer programming, software engineering, algorithms, data structures, computer organization and architecture, operating systems, and computer networking.

(C) An understanding of the principles of microprocessor systems, digital electronics, electrical circuits, electronics, and embedded systems, and an understanding of the applications of computer engineering principles.

(D) An ability to use analysis and design tools to produce integrated systems containing hardware and software.

(E) A depth and breadth of knowledge that goes beyond the basic skills expected of all computer engineering students with further specialization in either the software track or the hardware track.

(F) An ability to apply these principles and practices to a variety of computer engineering problems.

(G) An ability to successfully complete design projects of substantial complexity.

(H) An ability to understand and learn new technological developments in the field.

(I) An ability to work effectively in teams.

(J) An ability to communicate effectively in graphical, oral, and written media.

(K) An understanding of the professional responsibility of an engineer and how engineering solutions impact safety, economics, ethics, politics, and societal and cultural issues.

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, quality assurance, database design, and networks. The objective of the hardware track is to provide additional concentrated skills in interfacing, embedded control, instrumentation and networking.

Degree Requirements

Computer engineering education involves the traditional computer hardware education from electrical engineering departments and the computer software education from computer science departments. 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 from 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**

Hardware study focuses on digital circuits and systems, microprocessor interfacing and systems design, system security and computer system architecture and design. Courses in hardware encompass many electrical engineering classes, focusing 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**

Software study focuses on a broad range of topics in computer engineering, including software engineering, computer security, computer networks, computer graphics, computer languages, computer organization and architecture, computer systems, parallel and distributed systems and artificial intelligence. Courses in software encompass many computer science classes, but focusing more on computer architecture, networking, operating, and database systems, and software engineering.

SOFTWARE ENGINEERING

- Computer networks
- Computer architecture
- Computer systems
- Database Systems

Requirements**Foundation Courses**

University General Education Core Curriculum
Requirements

43 hrs.

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 (recommended) or PHIL 2390
Three hours from ANTH, ECO, PSY, SOC or CRIJ

Math and Sciences 21 hrs.

- CHEM 1301 and CHEM 1101 Chemistry I or CHEM 1307 and CHEM 1107 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

Courses required of all students in the program. 46 hrs.

- CMPE 1101 Introduction to Computer Engineering
- 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 hrs.

- CMPE 3341 Software Engineering II
- CMPE 4345 Computer Networks
- CMPE 4333 Database Design and Implementation
- CSCI/CMPE 3326 Java or CSCI/CMPE 3328 C#
- CMPE 2333 Computer Organization and Assembly Language

Hardware Track 15 hrs.

- CMPE 2322 Signals and Systems
- CMPE 3226 Instrumentation Lab
- CMPE 3331 Microcontroller and Embedded Systems Lab
- CMPE 4390 Communications Networks
- CMPE 3437 Microprocessor Systems

Technical Electives 6 hrs.

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
- Other approved Advanced Electives

Total 127 hrs.

Special Requirements

As part of the degree, all students must complete a two-semester capstone senior design project, represented by CMPE 4371 and CMPE 4372 or CMPE 4372 and CMPE 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 pg. 249.

ELECTRICAL ENGINEERING

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Choi, Yoonsu, Assistant Professor
Chu, Yul, Assistant Professor
Dong, Wenjie, Assistant Professor
Foltz, Heinrich, Professor
Huq, Hasina, Assistant Professor
Kuang, Weidong, Associate Professor
Kumar, Sanjeev, Associate Professor
Li, Junfei, Associate Professor
Marpaung, Julius, Lecturer
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; telephone: (410) 347-7700

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 hrs.
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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:

English and Literature	9 hrs.
Same as University Requirements	

The Arts	3 hrs.
Same as University Requirements	

Philosophy	3 hrs.
PHIL 2390 or PHIL 2393	

Natural Science	8 hrs.
PHYS 2401 and PHYS 2402	

Mathematics	3 hrs.
MATH 1460*	

Computer Literacy	2 hrs.
CSCI 1380*	

History	6 hrs.
Same as University Requirements	

Political Science 6 hrs.
Same as University Requirements

Other Social Science 3 hrs.
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 hrs.

- 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 hrs.

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 4373 Renewable Energy
- 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 hrs.
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 hrs.

- 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

Select one of the following:

- CHEM 1301 General Chemistry I
- or
- CHEM 1307 Chemistry for Engineers I

*Includes one hour each from MATH 1460 and CSCI 1380.

Total 125 hrs.

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 hrs.

- ELEE 3307 Electrical/Electronic Systems

Elective Courses 15 hrs.

Select 15 hours of ELEE courses, 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 hrs.

- 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 hrs.
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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 pg. 258.

MANUFACTURING ENGINEERING

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Full-Time Faculty
Bose, Subhash C., Professor
Butler, Alley, Professor
Gonzalez, Miguel, Professor
Lee, Kye-Hwan, Associate Professor
Li, Jianzhi, Associate Professor
Nambiar, Rajiv V., Associate Professor
Timmer, Douglas H., 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; telephone: (410) 347-7700

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 hrs.
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(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 pg. 97 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 hrs.
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Must select Art, Music,	
Dance or Theatre Appreciation	3 hrs.
PHIL 2393	3 hrs.
English Literature	3 hrs.
Science and Mathematics	11 hrs.
Computer Literacy	2 hrs.
Social Sciences	3 hrs.
U.S. History	6 hrs.
Political Science	6 hrs.
Economics	3 hrs.

TOTAL	43 hrs.
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Manufacturing Engineering Required Courses	44 hrs.
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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 4173	Production Design and Mass Customization
MANE 4311	Quality Control
MANE 4321	Automation Systems
MANE 4340	Operations Research
MANE 4331	Manufacturing Planning and Control
MANE 4352	Manufacturing Simulation
MANE 33xx/43xx	Technical Elective 1
MANE 33xx/43xx	Technical Elective 2

Senior Design	6 hrs.
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Students must complete a major capstone design project, to be completed over a two-semester period.

MANE 4361	Senior Design I
MANE 4362	Senior Design II

Other Course Requirements	35 hrs.
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CHEM 1301	General Chemistry 1
CHEM 1101	General Chemistry 1 Lab
CSCI 1380	Computer Science
MANE 1101	Introduction to Manufacturing Engineering
ELEE 3305	Electrical Systems
MATH 1470	Calculus II
MATH 3349	Differential Equations
MANE 1221	Manufacturing Engineering Graphics
MANE 2405	Engineering Mechanics
MECE 2440	Engineering Materials
MECE 3321	Mechanics of Solids
MANE 3437	Thermal and Fluid Sciences

Total	127 hrs.
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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 hrs.
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MANE 3332	Engineering Statistics
MANE 3364	Manufacturing Processes
MANE 3164	Manufacturing Processes Lab
MECE 2440	Engineering Materials

Designated Electives	7 hrs.
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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 pg. 263.

MECHANICAL ENGINEERING

Dr. Robert Freeman,

Department Chair

Engineering Building, Room 3.222A

Telephone: (956) 665-2381

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E-mail: rafree@utpa.edu

Full-Time Faculty

Caruntu, Dumitru, Associate Professor

Choutapalli, Isaac, Assistant Professor

Crown, Stephen, Professor

Freeman, Robert A., Professor

Fuentes, Arturo, Professor

Jones, Robert E., Professor

Haider, Waseem, Assistant Professor

Karadogan, Ernur, Assistant Professor

Kypuros, Javier, Associate Professor

Lozano, Karen, Professor

Mihut, Dorina, Assistant Professor

Park, Young-Gil, Assistant Professor

Potter, Greg, Lecturer I

Qubbaj, Ala, Professor

Ramirez, Samantha, Lecturer I
 Sarkar, Kamal, Lecturer II
 Shirazi, Reza, Assistant Professor
 Tarawneh, Constantine, Associate Professor
 Vasquez, Horacio, Associate 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 College 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; telephone: (410) 347-7700

The total course requirements for a Bachelor of Science in mechanical engineering consist of the following:

Degree Requirements

University Core Curriculum Requirements	43 hrs.
Humanities	15 hrs.

A course in visual and performing arts.

ENG	1301	Composition
ENG	1302	Rhetoric
ENG	23xx	Sophomore Literature
PHIL	2393	Engineering Ethics

Science and Math 12 hrs.

MATH	1460	Calculus I
PHYS	2401	Physics Science and Engineering I
PHYS	2402	Physics Science and Engineering II

Computer Literacy 2 hrs.

Social Science 15 hrs.

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 hrs.

CHEM	1107	Chemistry for Engineers Lab
CHEM	1307	Chemistry for Engineers
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 hrs.

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	330	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 hrs

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	4317	Introduction to Corrosion
MECE	4320	Introduction to Mechatronics
MECE	4322	Introduction to the Practice of Finite Elements
MECE	4323	Introduction to Combustion Engineering
MECE	4324	Thermal Systems Design and Optimization
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	Experimental Orthopedic Biomechanics
MECE	4382	Introduction to Nonlinear Dynamics
MECE	4383	Introduction to Micro/Nano Structures

TOTAL 127 hrs.

Additional Program Requirements

Students must receive a grade of C or better in all courses that are prerequisites for mechanical engineering courses (as indicated by their MECE designation). In addition, to remain in good standing with the Mechanical Engineering department, students need to have a minimum 2.4 GPA. If a student falls below that minimum, the student will be on departmental probation for one semester. If after that semester the student does not raise his/her GPA to 2.4 or above, the student will be

suspended from taking MECE courses for one regular semester. If an undergraduate student who has been suspended for failure to meet this BSME GPA policy feels that unusual circumstances warrant a review, the student may direct a written appeal with supporting documentation to the chair of the ME department. After the suspension period, the student will be able to take ME courses under probation.

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 pg. 264.

CIVIL ENGINEERING

Dr. Robert A. Freeman,
Program Interim Director

Academic Services Building, Room 1.202
1201 W. University Drive
Edinburg, Texas 78539-2999
Telephone: (956) 665-3038
Fax: (956) 665-3527
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Full-Time Faculty

Azarbayejani, Mohammad, Assistant Professor
Ho, Jungseok, Assistant Professor
Mahmoud, Enad, Assistant professor
Vu, Thanh Thuy, Assistant Professor
Vidal, Jorge, Lecturer I

General Overview

Civil engineers plan, design and supervise construction of facilities and systems used by our society. The wellness and convenience of our modern world is due largely to the infrastructure provided by civil engineers: water treatment plants and distribution systems, sanitary sewer collection and treatment systems, the distribution of electric power, transportation networks, high rise buildings, stadiums, dams, tunnels and bridges are all examples of civil engineering work that supports our civilization. The UTPA Civil Engineering Program began Sept. 1, 2010 with an emphasis in four areas of study: water resources, structures, geotechnical and management engineering. The program awards a Bachelor of Science in Civil Engineering. It is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)*. *ABET, Inc., 111 Market Place, Suite 1050; Baltimore, MD 21202; telephone: (410) 347-7700

Mission

The Civil Engineering Program prepares graduates for local, regional or worldwide employment in the engineering profession or placement in a graduate school. The program affords students opportunities to meet and interact with practicing engineers, businesses and government agencies; to participate in professional engineering organizations and in research. The faculty endeavor to be accessible, maintain state-of-the-art instruction and facilities, and to provide liberal access to laboratories and academic support.

Degree Requirements

Civil engineering education is founded upon physical science and mathematics. Lower-division coursework is focused upon gaining knowledge in these areas and then extending it into the realm of engineering science. Upper-division coursework applies the knowledge gained in math and science to analysis and design in specific areas of civil engineering. The course requirements for a Bachelor of Science in Civil Engineering are as follows:

University Requirements**

Core Curriculum 43 hrs.

Communication

ENG 1301 Composition
ENG 1302 Rhetoric

Natural Science

PHYS 2401 Physics for Sci & Eng I
PHYS 2402 Physics for Sci & Eng II

Mathematics

MATH 1460 Calculus I

Humanities

ENG 23xx English Literature
x3xx The Arts
PHIL 2393 Engineering Ethics

Social Sciences

HIST 2313 American Heritage I
HIST 2314 American Heritage II
POLS 2313 U.S. & Texas Govt and Politics
POLS 2314 U.S. & Texas Govt and Politics
x3xx Other Soc. Sci. course

Computer Literacy

MECE 1221 Engineering Graphics

Engineering Requirements 84 hrs.

Other Science and Mathematics (21 hrs.)

CHEM 1307 Chemistry for Engineers
CHEM 1107 Chemistry for Engineers Lab
MATH 1460 Calculus I (1 credit hr. over core)
MATH 1470 Calculus II
MECE 2450 Numerical Meth & Statistics
MECE 3449 Mechanical Eng Analysis I
MECE 3450 Mechanical Eng Analysis II

Engineering Science and Design (63 hrs.)

Basic Science Elective:

BIOL 1401
BIOL 2406
GEOL 1401
GEOL 4302
MECE 2303 Statics

MECE	2304	Dynamics
MECE	2335	Thermodynamics I
MECE	2340	Engineering Materials
MECE	2140	Engineering Materials Lab
MECE	3315	Fluid Mechanics
MECE	3115	Fluid Mechanics Lab
MECE	3321	Mechanics of Solids
CIVE	2120	Civil Eng. Measurements
CIVE	2140	Materials of Construction
CIVE	3331	Environmental Engineering Water Resources
CIVE	3333	Water and Wastewater Treatment
CIVE	4315	Applied Hydrology
CIVE	4335	Water Resources Engineering Structures
CIVE	3324	Structural Analysis
CIVE	3341	Structural Steel Design
CIVE	4346	Reinforced Concrete Design Geotechnical
CIVE	3375	Geotechnical Engineering & Applications
CIVE	4347	Foundation Design
CIVE	4348	Highway Engineering Management
CIVE	3252	Civil Engineering Systems Analysis
CIVE	4349	Const Planning & Management
CIVE	4390	CE Senior Design Project

TOTAL	127 hrs.
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** University requirements may also include:

UNIV	1301	Learning Frameworks
x6xx		Non-English Language

Course Descriptions

A listing of civil engineering courses can be found on pg. 248.

CIVIL ENGINEERING

CIVE 2120 Civil Engineering Measurements [0-3]

Principles of measurement and error analysis; introduction to plane surveying.

CIVE 2140 Materials of Construction [0-3]

Engineering properties of construction materials, preparation and testing of concrete mixtures, chemistry and science of Portland cement, related ASTM test specifications.

Prerequisites: CHEM 1307 and 1107 or CHEM 1301 and 1101.

CIVE 3324 Structural Analysis [3-0]

Forces and deflections in structural systems; considers stationary and moving loads and exact and approximate methods, analysis of statically indeterminate structures by consistent deformation, slope-deflection, and moment distribution methods. **Prerequisites:** MECE 3321.

CIVE 3331 Environmental Engineering [3-0]

Principles, analysis, and design related to environmental monitoring, protection, and remediation systems. Topics include environmental quality and legislation, modeling, water treatment, wastewater treatment, solid and hazardous waste management, air and noise pollution, and radioactive waste management.

Prerequisites: PHYS 2401, CHEM 1307 and 1107, or CHEM 1301 and CHEM 1101.

CIVE 3333 Water and Wastewater Treatment [3-0]

Theory, modeling, and design of chemical, biochemical and physical processes for water treatment, wastewater treatment, and pollution control.

Prerequisites: CIVE 3331.

CIVE 3341 Structural Steel Design [3-0]

Analysis and design of steel tension members, beams, columns, and bolted or welded connections. Emphasis on AISC structural codes and computer tools to assist the designer. Introduction to plastic design.

Prerequisites: CIVE 3324.

CIVE 3252 Civil Engineering Systems Analysis [3-0]

Systems approach to problem solving, application of operations research in civil engineering; and mathematical modeling and analysis techniques including marginal analysis, linear programming, and dynamic programming and decision analysis. **Prerequisite:** MECE 3449

CIVE 3375 Geotechnical Engineering and Applications [2-1]

Exploration, sampling, and in-situ measurements; laboratory

testing; review of fundamental properties of soil and rock; flow through porous media; the effective stress principle and computation of in-situ stress distributions; shear strength of soils and one-dimensional consolidation settlement; introduction to slope stability. Emphasis in laboratory on ASTM and AASHTO testing standards.

Prerequisites: MECE 3321.

CIVE 4315 Applied Hydrology [3-0]

Hydrologic cycle, precipitation, hydrologic abstractions, surface runoff; unit hydrographs; synthetic hydrographs; peak discharge relationships; flood frequency analysis; flood and reservoir routing; and groundwater hydrology. Binomial, normal and extreme-value skewed distributions.

Prerequisites: MECE 3315.

CIVE 4335 Water Resources Engineering [3-0]

Analysis and design of surface and subsurface water resource facilities. Design of water supply, gravity flow sanitary sewers and storm water drainage systems; pumps and pump systems and stations.

Prerequisites: CIVE 3331.

Co-requisite: CIVE 4315.

CIVE 4346 Reinforced Concrete Design [3-0]

Mechanics, behavior, and design of reinforced concrete members.

Prerequisites: CIVE 3324.

CIVE 4347 Foundation Design [3-0]

Design of footings, mats and slab-on-grade; earth pressures and design of retaining walls, piles and drilled piers, soil improvement and ground modification; pre-stressed slab design.

Prerequisites: CIVE 3375.

CIVE 4348 Highway Engineering [3-0]

Principles of transportation engineering, traffic volume, highway capacity; general characteristics of highway design; horizontal and vertical alignment, cross-sections, earthwork, drainage, and pavement; and economic analysis.

Prerequisites: CIVE 2120, 3252.

CIVE 4349 Construction Planning and Management [3-0]

Planning, managing, scheduling and control of construction projects. Topics include management functions, network techniques, equipment selection, management and operation, construction financing, bidding strategy, risk assessment, cost control, and projection.

Prerequisites: CIVE 3352.

CIVE 4390 Civil Engineering Senior Design Project [2-3]

An overview of design, management and professional engineering; student design teams complete a comprehensive project involving several areas of civil engineering. Course to be completed in the final semester of the student's civil engineering degree plan.

Prerequisites: Consent of CIVE adviser.

CIVE 1100 CE Study I: [0-3]
Repeatable, lower-division undergraduate course facilitating organized study in civil engineering.
Prerequisites: Consent of CIVE adviser.

CIVE 4100 CE Study II: [0-3]
Repeatable, upper-division undergraduate course facilitating organized study in civil engineering.
Prerequisites: Consent of CIVE adviser.

CIVE 4199 CE Topic: [0-3]
CIVE 4299 CE Topic: [2-0]
CIVE 4399 CE Topic: [3-0]
CIVE 4499 CE Topic: [3-3]

Civil Engineering Topic: This course facilitates concentrated study of a civil engineering topic beyond the depth or breadth of courses in the current undergraduate catalog; variable credit (1-4 semester credit hours).
Prerequisites: Consent of CIVE adviser.

COMPUTER ENGINEERING

CMPE 1101 Introduction to Computer Engineering [3-0]

as scheduled
This course is an introduction to computer engineering concepts and vision, the history of computer systems, societal and ethical issues, binary values and number systems, analog and digital data representation, gates and circuits, Boolean algebra and circuit simplification, basic computer architecture, low-level, high-level programming languages and pseudocode, and communications skills. **Prerequisites:** Grade of C or better in MATH 1340 or placement in a higher level Math course.

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 1178 Engineering Computer Science I Laboratory (Honors) [3-0]

as scheduled
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 1378 lecture course. Equivalent course: CSCI 1170.

A student may receive credit in only one course. **Co-requisite:** CMPE 1378.

CMPE 1370 Engineering Computer Science I [3-0]

as scheduled
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. Fulfills Computer Literacy Core Requirement. **Co-requisite:** CMPE 1170.
Cannot receive credit for both CSCI 1380 and CMPE 1370. Will replace a grade received in CSCI
Prerequisites: Computer Literacy experience and enrollment in or credit for CMPE 1101 and MATH 1340 or placement in higher level math.

CMPE 1378 Engineering Computer Science I (Honors) [3-0]

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. Fulfills Computer Literacy Core Requirement. **Prerequisites:** Computer Literacy experience and enrollment or placement in Math 1340 or higher. Credit or enrollment in CMPE 1101. **Co-requisite:** CMPE 1178.

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. **Prerequisites:** 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:** CMPE 2130 recommended but not required. Equivalent Course: ELEE 2330. A student may not receive credit for both CMPE 2330 and ELEE 2330.
Prerequisites: CMPE 1101 and CMPE 1370 or CSCI 1370. Placement or enrollment in or credit for MATH 1460.

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.
Prerequisites: 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. **Prerequisites:** 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 2388 Computer Science II (Honors) [3-0]

as scheduled
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: CMPE 1370 OR CSCI 1370 or consent of instructor. Equivalent course: CSCI 2388, a student may receive credit in only one course.

CMPE 3300 Internship in Computer Engineering [3-0-20]

Designed to give students an opportunity to gain practical experience in the computer engineering field by working with a participating employing firm or organization. The student will be supervised by a faculty member and a employer supervisor. The employment can be either paid or unpaid and would normally be spread over one academic term or summer. A maximum of 3 hours can count towards the computer engineering major. Can be repeated one time for a maximum of 6 hours.
Prerequisite(s): Approval by department and employer. Upper-division standing, minimum of 12 hours of Computer Engineering completed.

CMPE 3326 Object-Oriented Programming in Java [3-0]

The Java programming language and environment will be introduced with an emphasis on object-oriented programming. Application areas will include Internetbased programming, applets, and HTML, and topics will include control structures, classes, methods, inheritance, Java libraries and packages. Objected-oriented aspects will include graphics, GUI, exception handling, multithreads, multimedia and networking.
Prerequisite(s): CSCI 1380 or CSCI 1370 or CMPE 1370

CMPE 3328 Object-Oriented Programming in C [3-0]

The C# programming language and .NET environment will be introduced with an emphasis on widows-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 CSCI 170 or CMPE 1370 or consent of instructor.

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 credit or enrollment in MATH 3373 or credit for 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 2380 or CMPE 2380 and 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. **Prerequisites:** 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 with a major emphasis on object design, implementation, testing and validation, maintenance and software re-engineering. Methods for evaluating software for correctness, and reliability, system testing techniques, testing tools and limitations of testing, Advance Software Engineering topics such as Design Patterns, Aspect Oriented Engineering, Interactive Design Methods, and Formal Specification are included. Students will work a large group projects.

Prerequisites: 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. **Prerequisites:** 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 4185 Research Seminar [0-0-3]

as scheduled

Students will have the opportunity to conduct faculty-sponsored research in the area of mutual interest resulting in oral and written presentation of their work to other students and faculty. May be repeated up to 6 credit hours. Up to the three credit hours can be used to meet CMPE degree requirements. Cross-listed with CSCI 4185 Research Seminar.

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.

Prerequisites: 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.

Prerequisites: 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.

Prerequisites: 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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. **Prerequisites:** 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 Software Track [1-6]
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 Software Track [1-6]
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. **Prerequisites:** CMPE 4371 in the previous semester. Cannot receive credit for both CMPE 4372 and CMPE 4374.

CMPE 4373 Senior Design I Hardware Track [1-6]
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 Hardware Track [1-6]
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.

Prerequisites: 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 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** CMPE 4337 or junior standing. Equivalent Course: ELEE 4390. A student may not receive credit for both CMPE 4390 and ELEE 4390.

COMPUTER SCIENCE

CSCI 1101 Introduction to Computer Science [1-3]

fall, spring, summer

An introduction to the breadth of the field of computer science. Topics include an introduction to computer science as a career, overviews of various computer science areas and topics, and foundations of computational problem solving.

CSCI 1170 Engineering Computer Science I Laboratory [1-0]

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 1178 Engineering Computer Science I Laboratory (Honors) [1-0]

as scheduled

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 1378 lecture course. Equivalent course: CSCI 1170. A student may receive credit in only one course. **Co-requisite:** CMPE 1378.

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.

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 1260 Introductory Computer Science Concepts [2-0]

as scheduled

The course is highly recommended for those students who do not have any programming experience in high school before taking CSCI 1370. Topics include hardware and system software terminology and concepts, web page development and an overview of programming concepts.

The fundamentals of algorithm development and programming will be introduced through hand-on problem solving using a robot or visual programming platform. Students will complete assignments relating to simple web page implementation, Internet research, and computing application areas.

Prerequisites: Student with computer experience. This course fulfills the core curriculum requirements.

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.

Prerequisites: 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. Fulfills Computer Literacy Core Requirement. Societal and social issues related to computer engineering will be introduced. **Co-requisite:** CSCI 1170. Equivalent course: CMPE 1370. Cannot receive credit for both CSCI 1380 and CSCI 1370. **Prerequisites:** Prerequisite or Co-requisite CSCI 1101 and grade of "C" or better for MATH 1340 or placement in a higher level Math course.

CSCI 1378 Engineering Computer Science I (Honors) [3-0]

fall, spring, summer

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. Fulfills Computer Literacy Core Requirement. Can receive credit for one of CSCI 1378, CSCI 1370, CMPE 1378 or CMPE 1370. Corequisite: CMPE 1178. **Prerequisites:** Credit or enrollment

in CSCI 1101 and C or better in MATH 1340 or placement in higher-level math course.

CSCI 1380 Computer Science I [3-0]
(Texas Common Course Number is COSC 1330/1336)
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. **Prerequisites:** Concurrent enrollment in MATH 1340 or credit for MATH 1340 or higher level mathematics course.

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. Equivalent course: CSCI 1380. **Prerequisites:** Concurrent enrollment in MATH 1340 or credit for MATH 1340 or higher level mathematics course.

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 websites 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. **Prerequisites:** CSCI 1380 or CSCI 1370 or CMPE 1370.

CSCI 2333 Computer Organization and Assembly Language [3-0]
(Texas Common Course Number is COSC 1319.)
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. **Prerequisites:** CSCI 1370 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]
(Texas Common Course Number is COSC 2318.)
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. **Prerequisites:** 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 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. **Prerequisites:** 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. Objected-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 widows-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.

Prerequisites: CSCI 1380 or CSCI 1370 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: CMPE or CSCI 2380 and credit or enrollment in MATH 3373 or credit for MATH 2346.. 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: CSCI 2380, or CMPE 2380 and CSCI 2333 or 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. **Prerequisites:** 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 with a major emphasis on object design, implementation, testing and validation, maintenance and software re-engineering. Methods for evaluating software for correctness, and reliability, system testing techniques, testing tools and limitations of testing, Advance Software Engineering topics such as Design Patterns, Aspect Oriented Engineering, Interactive Design Methods, and Formal Specification are included. Students will work a large group projects.

CSCI 3342 Internet Programming [3-0]

fall, spring, summer

Introduction to web application programming. Covers the fundamentals of developing applications for web browsers, within the dominant HTTP-based client/server model. A wide range of technologies and development methodologies are covered, including database and server architectures, server-side frameworks, client-side languages/libraries, remote invocation models and web application security. Specific topics in web development change rapidly, but some examples include SQL, HTML, TLS, PHP, Java EE (servllets, JSP, etc), ASP. NET. **Prerequisites:** CSCI 2380 or CMPE 2380 and CSCI 3326 or CSCI 3327 or CSCI 3328.

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. **Prerequisites:** MATH 1460 and CSCI 1380 or CSCI 1370 or CMPE 1370.

CSCI 4185 Research Seminar [0-0-1]

fall, spring, summer

Students will have the opportunity to conduct faculty-sponsored research in the area of mutual interest resulting in oral and written presentation of their work to other students and faculty. May be repeated up to 6 credit hours. Up to three credit hours can be used to meet CSCI degree requirements. Cross-listed with CMPE 4185 Research Seminar.

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.

Prerequisites: 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. **Prerequisites:** 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. **Prerequisites:** CSCI 3333 or consent of instructor.

CSCI 4318 Cyber Security and 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.

Prerequisites: CSCI 1370 or CMPE 1370.

CSCI 4325 Automata, Formal Languages and Computability [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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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. **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: 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. **Prerequisites:** 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. **Prerequisites:** Consent of instructor.

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

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. **Prerequisites:** 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]

(Texas Common Course Number is ELEE 2305.)

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. **Prerequisites:** Credit for MATH 1470, credit or registration for PHYS 2402.

ELEE 2321 Signals and Systems [3-0]

fall, spring

Response of LTI networks by Fourier and Laplace transform methods, frequency-domain techniques and time-domain techniques, discrete signal representation and z-transforms. **Prerequisites:** ELEE 2320 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. **Prerequisites:** 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. **Prerequisites:** Consent of instructor.

ELEE 3225 Electrical Engineering Laboratory I [0-6]

fall, spring

This course covers basic measurement and instrumentation techniques, limitations of theoretical models, design of basic analog and digital circuits, and reporting of technical results. **Prerequisites:** Credit for ELEE 2330 and ELEE 2130 with a C or better, credit or registration for ELEE 2319, 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** PHYS 2402 and ELEE 2320.

ELEE 4373 Renewable Energy [3-0]
as scheduled
This course covers principles of electric generation focusing on (a) the efficient utilization of electric energy, and (b) renewable energy sources. The course concentrates on the study of wind energy and solar photovoltaics. It covers the analytical methods used to evaluate the available resources, and the

technologies used today to integrate distributed generation to electric grids and energy storage systems. Laboratory projects and simulations are included. Performance evaluation of campus photovoltaic resources will be included. **Prerequisites:** One of the following: ELEE 2320, CMPE 2320, or ELEE 3307

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

Prerequisites: ELEE 4461.

General Engineering

ENGR 1101 Introduction to Engineering [1-0]

(Texas Common Course Number is ENGR 1101.)

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.

Prerequisites: 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 Engineering and Computer Science faculty member.

Prerequisites: 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. **Prerequisites:** 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.

Prerequisites: Junior standing or consent of instructor. \$4 laboratory fee.

ENGR 3300 Internship/Co-op in Engineering

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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Senior standing in engineering.

MANUFACTURING ENGINEERING

MANE 1101 Introduction to Manufacturing Engineering [0-3]

as scheduled

This course provides an introduction to Manufacturing Engineering as a career, and the requirements for registration as a professional engineer. Topics include approaches to engineering problem solving and engineering design with teams.

Prerequisite: None.

MANE 1221 Manufacturing Engineering Graphics [1-3]

as scheduled

This course provides an introduction to computer-aided modeling of solid objects. Students will start to use industrial software to make computer models of solids and assemblies. Topics will also include graphical communication using engineering drawings and geometric dimensioning and tolerancing.

Prerequisite: None.

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 2405 Engineering Mechanics [3-3]

as scheduled

This course deals with statics and dynamics. Topics in statics include vectors, free body diagrams, equilibrium, centroids and moments of inertia. Topics in dynamics include kinematics and kinetics applied to particles and rigid bodies. Applications to problems in Manufacturing Engineering will be emphasized.

Prerequisites: Grade of C or better in PHYS 2401

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 [2-3]

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 3437 Thermal & Fluid Sciences [3-3]

as scheduled

Topics include the thermodynamic properties of materials, the first and second law of thermodynamics; one dimensional steady state and lumped mass unsteady heat transfer; hydrostatics, the Bernoulli equation, and pipe flow.

Prerequisite(s): PHYS 2402

MANE 4173 Product Design and Mass Customization [0-3]

as scheduled

Students will participate in international engineering design projects emphasizing principles of team-work, communication and collaboration. They will investigate strategies to improve competitiveness of manufacturing in a global economy.

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 [2-3]

spring

This course 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.

MANE 4361 Senior Design I [1-6]

as scheduled

This course is a preparation for a capstone design experience drawing from all previous coursework, and involves problem definition, assumptions, methods of analysis, testing, and reporting of results. Classroom discussions will consider professional responsibility, technology and society, entrepreneurship, team building and lifelong learning. The project to be undertaken in the Senior Design II class will be selected.

Prerequisites: MECE 3304 and MECE 3320, and credit or enrollment in MECE 3380, MECE 3360 and MECE 4350 or consent of instructor.

MANE 4362 Senior Design II [0-9]

as scheduled

This course is a continuation of ENGR 4361. 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. **Prerequisites:** MANE 4361 or MECE 4361.

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 [3-0-]

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 or CHEM 1301 and CHEM 1101, and credit for or enrollment in 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]

(Texas Common Course Number is ENGR 2302.)

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 and MATH 1470.

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 CHEM 1307 or CHEM 1301, MATH 1470, and PHYS 2401.

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 or CHEM 1301 and CHEM 1101, and credit for or enrollment in MECE 2140.

MECE 2405 Engineering Mechanics [3-3]

fall, spring, summer

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, summer

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: A grade of "C" or better in MATH 1470..

MECE 3100 Undergraduate Research [0 3]

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 advisor.

MECE 3115 Fluid Mechanics Laboratory [0-3]

fall, 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, spring, 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, summer

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 MECE 3450.

MECE 3315 Fluid Mechanics [3-0]

fall, 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, summer

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 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 MATH 1470 and MECE 2303 or MECE 2405.

MECE 3336 Thermodynamics II [3-0]

fall, spring, summer

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, spring, 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]

fall, 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, spring, summer

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, summer

The course offers engineering students an in-depth look into the following topics: linear algebra including matrices, vectors, determinants, linear systems and matrix eigenvalue problems; vector differential calculus and vector integral calculus including integral theorems; complex numbers and functions including complex integration; power series and Taylor series; numeric linear algebra; and probability and statistics. **Prerequisites:** A grade of C or better in MATH 1470 and credit for or enrollment in MECE 2450.

MECE 3450 Mechanical Engineering Analysis II [3-3]

fall, spring, summer

The course offers engineering students an in-depth look into the following topics: first-order ODEs, second-order linear ODEs, higher-order ODEs and systems of ODEs; series solutions of ODEs and special functions; Laplace transforms; Fourier series, integrals and transforms; partial differential equations (PDEs); and numerics for ODEs and PDEs.

Prerequisite: A grade of C or better in MECE 2450 and MECE 3449.

MECE 4101 Fundamentals of Engineering [0-3]

fall, spring, summer

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]

fall, spring, summer

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 3304.

MECE 4305 Vehicle Systems Modeling and Control [2-3]

fall, spring, summer

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 3304.

MECE 4315 Compressible Fluid Flow [3-0]

fall, spring, summer

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]

fall, spring, summer

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 4317 Introduction to Corrosion [3-0]

fall, spring, summer

The course will introduce students to the basic principles behind the corrosion of metals, the results of corrosive action and the methods for corrosion prevention, control and experimentation. The fundamentals of thermodynamics and electrochemistry will be used to describe destructive chemical interactions of materials with their environment. The effects of various types of corrosion will be presented and the importance of corrosion problems will be addressed in relation to material cost, reliability, reduced performance and impact on the environment. Examples of corrosion in water, soils, and in various atmospheres will be used to introduce the prevention techniques and control measures such as alloy selection, cathodic protection, protective coatings and inhibitors. **Prerequisite:** A grade of "C" or better in MECE 2340.

MECE 4320 Introduction to Mechatronics [2-3]

fall, spring, summer

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 ELEE 3307.

MECE 4322 Introduction to the Practice of Finite Elements [3-0]

fall, spring, summer

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 Introduction to Combustion Engineering [3-0]

fall, 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 3315.

MECE 4324 Thermal Systems Design and Optimization [3-0]

fall, spring, summer

This course combines the fundamental theories of thermodynamics, fluid mechanics, and heat transfer to model

various thermal-fluid and energy systems, with a particular focus on design optimization. Topics covered by the course are: component selection under system performance requirements; computational modeling; system simulation; optimization techniques; and investment economics and statistical combinations of operating conditions. **Prerequisite:** Credit for or enrollment in MECE 3360.

MECE 4325 Composite Material Design [3-0]

fall, spring, summer

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]

fall, spring, summer

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]

fall, spring, summer

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, spring, summer

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, spring, summer

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 Physical Metallurgy [3-0]

fall, spring, summer

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 PHYS 2402.

MECE 4350 Machine Elements [3-0]

fall, spring, summer

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]

fall, spring, summer

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 ELEE 3307 and credit for or enrollment in MECE 3360.

MECE 4361 Senior Design Project I [1-6]

fall, spring, summer

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:** Credit for MECE 3304 and MECE 3320, and credit for or enrollment in MECE 3360, MECE 3380, and, MECE 4350.

MECE 4362 Senior Design Project II [0-9]

fall, spring, summer

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, spring, summer

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]

fall, spring, summer

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 Experimental Orthopaedic Biomechanics [3-0]

fall, spring, summer

This course covers the following topics on musculoskeletal system: statics, dynamics, kinematics data and processing, anthropometry, kinetics (forces and moments), mechanical work, energy and power, synthesis of human movement – forward solutions, three-dimensional kinematics and kinetics, muscle mechanics, kinesiological electromyography, utilization of computational packages in orthopedic biomechanics to include finite element analysis. Labs for investigating muscle activity, ground reaction forces, and kinematic data for tasks such as walking, squatting, and running are included in the course. **Prerequisites:** A grade of "C" or better in MECE 2304 and MECE 3450.

MECE 4382 Introduction to Nonlinear Dynamics [3-0]

fall, spring, summer

This course is an introduction to nonlinear dynamics and stresses analytical methods, examples and geometric intuition. The course covers the following topics: mechanical engineering systems described by differential equations and their bifurcations, phase plane analysis, limit cycles and their bifurcations, Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors. The course has an emphasis on engineering applications. Some of these applications include mechanical vibrations, lasers, superconducting circuits, chemical oscillators, and chaotic waterwheels. Software packages such as MATLAB are used for numerical simulations of mechanical engineering applications related to nonlinear dynamics and chaos. **Prerequisites:** A grade of "C" or better in MECE 2304 and MECE 3450.

MECE 4383 Introduction to Micro/Nano Structures [3-0]

fall, spring, summer

This course is an introduction to micro/nano structures (MNS) and covers the following topics: nano- and micro- engineering; current developments and needs; MN systems, structures

and devices; classification and scaling laws; fundamentals of microfabrication, synthesis of MNS; micro- and nano-electromechanical systems; quantum mechanics; carbon nano-tubes (CNTs); dynamics and control of MNS; analysis, design and fabrication of MNS for certain engineering applications. Software packages such as MATLAB are used for numerical simulations of mechanical engineering MNS applications.
Prerequisites: A grade of “C” or better in MECE 2304 and MECE 3450.

COLLEGE OF HEALTH SCIENCES AND HUMAN SERVICES

Dr. John Ronnau,

Dean

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HSHW 2.230

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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, Texas, and the nation.

Mission

The College of Health Sciences and Human Services supports and facilitates the mission of UT 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 also 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 website.

The college faculty 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 and in other regions.

CLINICAL LABORATORY SCIENCE

Karen Chandler,

Program Coordinator

Health Sciences and Human Services West (HSHW), Room 2.206

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Full-time Faculty

Aguirre, Maria Theresa, Clinical Asst. Professor

Chandler, Karen, Associate Professor

Reyna, Maria Elena, Clinical Asst. Professor

Tijerina, Sandra L., Associate Professor

Ndeta, George A., Assistant Professor
Gilkerson, Robert W., Assistant 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 UT 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 with 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 website. 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; Phone: (773) 714-8880; Web: www.naacsls.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 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 UT 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 Immunohematology
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.

Program Standing and Academic Progression

Students are required to maintain a grade of C or better in all clinical laboratory science courses. If a student earns a grade lower than a C, he/she must repeat the course at the

next regularly scheduled time that it is offered. Students who earn a grade less than a C in any prerequisite course will not be allowed to take any advanced courses, which require that course as a prerequisite. All on-campus courses must be completed with a C or better prior to beginning the clinical rotations. If a student fails to earn a C or better in any two courses, or earns a grade lower than a C in any required course two times, he/she will not be permitted to continue in the program.

Readmission

Students who are dropped from the program for academic reasons are not automatically readmitted. Students must make a formal written request for readmission. Readmission depends on space availability and the student's previous performance in CLSC courses. Students will be notified of their readmission by Aug. 1. The admission committee may require repetition of foundation clinical laboratory science courses or other remedial work in addition to the repetition of courses, which the student previously failed. Students who receive a grade of D or less in the same course twice or drop the same CLSC course twice to avoid a failing grade are ineligible for readmission into the CLSC Program.

Maximum Timeframe

Due to the nature of the practice-oriented curriculum, students admitted into the Clinical Laboratory Science Program must complete all courses in the professional portion of the curriculum within a period of four consecutive years from the date of first enrollment in the program. This maximum time frame is a deviation from the University's seven-year time limit. Students are also advised that accreditation requirements may impact required courses if there is a delay in completing the normal sequence of courses in the expected timeframe.

TOTAL	123 hours
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Course Descriptions

A listing of courses offered by the Clinical Laboratory Science Program can be found on pg. 285.

COMMUNICATION SCIENCES AND DISORDERS

Keri Parchman-Gonzalez,

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Full-Time Faculty

Ayala, Kara, -Associate Professor
Crutchfield, Ruth, -Assistant Professor
Mata-Pistokache, Teri, Associate Professor
Parchman-Gonzalez, Keri, -Clinical Instructor
Salinas, Sonya, -Clinical Instructor
Sibley, Keith, Lecturer
Wang, Bailey, 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. Students must apply and be formally accepted to the COMD Undergraduate Program. Specific program requirements and application may be obtained at <http://www.utpa.edu/comd>. 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.

COMD Admission Requirements

The -MATS 3301 and the three science courses (2 Bio or 2 A & P including the additional science course) must be taken prior to applying to the COMD program ("C" or higher in the three science courses and the -MATS 3301 is required). Refer to COMD website for specific science requirements.

Students must lack no more than six courses from the core, electives, or supplemental areas on the degree plan to be eligible to apply to the COMD undergraduate program. The -MATS 3301 and the three science courses cannot be included as part of the six courses lacking at the time of the application.

A grade of "C" or higher is required in all of the supplemental courses.

Minimum GPA of 2.8 is required to be eligible to apply.

Admittance is competitive.

COMD Undergraduate Program Policies

Students must apply and be formally accepted to the Communication Sciences and Disorders Undergraduate Program to enroll in the following courses in the required sequenced blocks: COMD 3310, COMD 3315, COMD 3320, COMD 3330, COMD 3340, COMD 3355, COMD 3360, COMD 4310, COMD 4330, COMD 4350, COMD 4360, COMD 4365, COMD 4370, COMD 4380, and COMD 4390.

Non-admitted students may only enroll in COMD 2310, COMD 1310, & COMD 1320.

Students must lack no more than six courses from the core, electives, or supplemental areas on the degree plan to be eligible to apply to the COMD undergraduate program. Students must complete the three sciences and -MATS 3301 with a C or higher prior to applying to the COMD program. The -MATS 3301 and the three science courses cannot be included as part of the six courses lacking at the time of the application. Refer to COMD website for specific science courses required.

When formally accepted to the COMD Undergraduate program, students must earn a minimum of a C in each of the COMD courses listed in the major on the degree plan.

Students must earn a minimum of a C in the courses listed in the supplemental area on the degree plan.

When formally accepted to the COMD Undergraduate program, students must follow the required course block sequence. If a student drops a course or receives a D or F in one of the courses listed in the major: COMD 2310, 3310, 3315, 3320, 3330, 3340, 3355, 3360, 4310, 4330, 4350, 4360, 4365, 4370, 4380, 4390, he/she must enroll in that course the next time that it is offered. Students will not be able to progress in the COMD major course sequence should a D or F, be earned in the courses aforementioned. The course in which a D or F is

received will need to be retaken at the next time that the COMD course is offered.

If a D or F is earned in the following supplemental courses: COMD 1310, COMD 1320, PHIL 2330, , SOC 1313, HRP 2303, and REHS 3320, he/she will be allowed to proceed in the COMD major course sequence, however, must retake the supplemental course in which a D or F was earned the next time it is offered.

Students must earn a C or higher in the courses listed in the COMD major and supplemental areas of the degree plan to meet requirements for an undergraduate degree in Communication Sciences and Disorders.

Effective fall 2009, students who have previously been enrolled in COMD major courses and did not complete the degree may have the opportunity to complete the degree as long as none of the completed COMD major courses are more than five years from the re-enter date. If the COMD courses are more than five years of the date the student wishes to re-enter, he/she will have to apply to the program and retake the courses that were more than five years from the re-enter date. Admittance to the program is competitive.

Degree Requirements

Core Curriculum Requirements	43 hours
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Major Course Requirements	73 hours
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COMD 2310	Introduction to Speech-Language Pathology*
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*(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 3355	Survey Neurological Disorders in Speech-Language Pathology
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	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
MATS 3301	Applied Statistics In COMD
PHIL 2330	Ethics
SOC 1313	Principles of Sociology
HRP 2303	Medical Terminology
REHS 3320	Family and Disability Chemistry or Physics

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 pg. 286.

COORDINATED PROGRAM IN DIETETICS

Dr. Bahram Faraji, RD, LD
Program Coordinator

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www.utpa.edu/dept/dietetics

Full-Time Faculty

Faraji, Bahram (Bob), Professor
Edionwe, Alexander, Associate Professor
Norma Beardwood, Clinical Assistant Professor

General Overview

The Coordinated Program in Dietetics prepares students to successfully complete the national Registered Dietitian

(RD) Exam 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 Academy of Nutrition and Dietetics (AND) and take the examination to become a Registered Dietitian (RD) and Licensed Dietitian (LD).

The dietetics program is accredited by the Academy of Nutrition and Dietetics' Accreditation Council for Education in Nutrition and Dietetics (ACEND)..

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) 665-5264 for information.
2. Official transcript showing completion of at least 72 hours with a minimum of 2.7 grade point average to include ENG 1301, ENG 1302, and MATH 2330. Science Support Courses: BIOL 2403, BIOL 2404, CLSC 2429, CHEM 1301, CHEM 1101, CHEM 1302, and CHEM 2302 Dietetic Core: HRP 2303, DIET 2351 and DIET 2352

NOTE: A minimum GPA of 2.7 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 last Monday in March.
2. Grade point average overall based on degree plan (X4) and in science courses (X6).
3. Evaluation of selected references and criteria.
4. Admission interview.

Academic Progression

Students are required to maintain a grade of C or better (Grade of C is 75.0-79.9 percent of maximum possible points) in all dietetic courses and supervised practices. If a student earns a grade lower than C, he/she must repeat the course at the next regularly scheduled time that it is offered. If a student fails to earn a C or better in any two or more courses, or earn a grade lower than a C in any dietetic course twice, he/she will not be permitted to continue in the program.

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 from the department.

Graduation Requirements

1. Complete all courses and supervised practices with a grade of C or better. Grade of C is 75.0-79.9 percent of maximum possible points.
2. Complete all five supervised practices totaling at least 1,200 hours.
3. Complete a Junior Comprehensive Exam at the end of junior year and a RD Readiness 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 pgs. 97-99 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 10 hours*

CHEM	1301	General Chemistry I
CHEM	1101	General Chemistry Lab I
CHEM	1302	General Chemistry II
CHEM	2302	Organic Chemistry I

*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 7.0 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

MGMT	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

DIE	2351	Introduction to Clinical Nutrition
DIET	2352	Food Preparation
HRP	2303	Medical Terminology

Dietetic Professional Courses 52 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	3257	Junior Seminar in Dietetics
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	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	4259	Seminar 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 supervised practices) and for all science support courses. Grade of C is 75.0-79.9 percent of maximum possible points.

TOTAL 124 hours

Course Descriptions

A listing of courses offered by the Coordinated Program in Dietetics can be found on pgs. 288.

NURSING

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Cabrera, Fernando, Clinical Instructor
Cantú-Cabrera, Juana, Assistant Professor
Díaz, Judjee, Lecturer
Díaz, María, Associate Professor
Fernandes, Shemaiah, Lecturer
Flores-Vela, Alma, Lecturer
Fuentes, Lilia, Assistant Professor
Garza, Viola, Assistant Professor
Herrera-Erdem, Orelia, Clinical Instructor
Huerta, Carolina, Professor
John, Betty, Clinical Instructor
Maville, Janice A., Professor
McGuffin, Martha, Clinical Instructor
Mellen, Graciela Maria, Clinical Instructor
Nadeau, Nancy, Lecturer
Nieto, Beatriz, Associate Professor
Otto, Debra, Associate Professor
Reyna, Edna, Clinical Instructor
Rivera-Burciaga, Andrya, Lecturer
Rodríguez, Melinda, Assistant Professor
Rojas, Dahlia, Clinical Instructor
Sabu, Jayamol, Lecturer
Sánchez, M. Sandra (Sandy), Professor
Sanil, Liji, Lecturer
Sullivan, Pamela, Assistant Professor

Thomas, Susamma, Lecturer
Voss, Judy, Lecturer

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, Phone: (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 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
Health Sciences and Human Services East (HSHE),
Room 2.190
Telephone: (956) 665-3491
E-mail: sandy@utpa.edu

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 in all prerequisite courses.
3. Complete all BSN prerequisites with a minimum grade of C in each course (see details 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 (infectious) pulmonary disease.
7. Provide documentation verifying current immunization or immunity status for specified diseases (hepatitis B, measles, mumps, rubella, tetanus/diphtheria or tetanus/diphtheria/pertussis, varicella, flu, etc.).
8. Submit evidence of being cleared by the Texas Board of Nursing's criminal background check.
9. Alternate pathway applicants: Be a registered nurse in the state of Texas or have a temporary permit to practice professional nursing in Texas.
10. Submit application to the BSN Program by March 1.
11. 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
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Complete the requirements shown in the University core curriculum requirements section shown on pgs. 97-99 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 and Physiology)

Group 2. Mathematics (3 hours)
MATH 2330 or MATH 2335 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	22-25 hours
Microbiology	4 hours
General Chemistry	4 hours
Nutrition	3 hours

Nursing (Generics only)	3 hours
NURS 2301 Wellness	

Psychology	6 hours
Developmental Psychology/Lifespan	3 hours
Introduction to General Psychology	3 hours

Kinesiology (activity)	2 hours
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Health Language	3 hours
HRP 2303 Medical Terminology or SPAN 2317 Spanish for Health Providers	

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/ Criminal 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 Texas Board of Nursing (BON) may refuse to admit persons to its examinations.

Any individual who has reason to believe that he/she is ineligible for the license may contact the BON at (512) 305-7400 or visit 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 (infectious) pulmonary disease.
3. Provide documentation verifying current immunization or immunity for specified diseases (hepatitis B, measles, mumps, rubella, tetanus/diphtheria or tetanus/diphtheria/pertussis, varicella, flu, 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.
- 10. Abide by and adhere to the current BSN Student Guide.

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 BSN 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.

In general, students are 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 for the BSN degree.
- 2. Satisfactorily complete all required courses for the BSN degree.
- 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 and BSN requirements for a bachelor’s degree.
- 7. Pass the 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
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NURS 3302, 3209, 3403, 3405, 3203, 3604, 3608, 4601, 4602, 4203, 4504, 4607

Alternate Pathway	25 hours
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NURS 3301, 3302, 3403, 3209, 4203, 4504, 4607

plus	30 hours**
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**As approved by BSN Student Development Committee.

Designated Electives

Generic Pathway	0 hrs.
Alternate Pathway	0 hrs.

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 for more information.

TOTAL	120 hours (minimum)
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Semester-by-Semester

Generic BSN Curriculum	52 hours
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Junior Year		
Fall (1)		
13 hours		

NURS	3302	Pharmacology
NURS	3403	Client Assessment
NURS	3604	Nursing Fundamentals

Spring (2)		
14 hours		

NURS	3203	Health Promotion
NURS	3405	Mental Health Nursing
NURS	3608	Adult Health I
NURS	3209	Research

Senior Year

Fall (3) 12 hours

NURS 4601	Adult Health II
NURS 4602	Family Health Care

Spring (4) 13 hours

NURS 4203	Issues in Nursing
NURS 4504	Community Health Nursing
NURS 4607	Leadership in Nursing

Generic Pathway SCH

General Ed 68

Nursing 22

TOTAL 20 hours

Semester-by-Semester Alternate

Streamlined Pathway Curriculum 25 hours

Fall (1) 12 hours

NURS 3301	Professional Mobility
NURS 3302	Pharmacology
NURS 3403	Client Assessment
NURS 3209	Research [advised to take in prior Spring]

Spring I (2) 13 hours

NURS 4203	Issues in Nursing
NURS 4504	Community Health Nursing
NURS 4607	Leadership in Nursing

Advanced Placement BSN

Credit Available (up to 30 SCH)

NURS 3604	Nursing Fundamentals
NURS 3203	Health Promotion
NURS 3405	Mental Health
NURS 3608	Adult Health I
NURS 4601	Adult Health II
NURS 4602	Family Health Care

Alternate Pathway SCH

General Ed RN 65

Upper Level Credit 30

Nursing 25

TOTAL 120 hours**Course Descriptions**

A listing of courses offered by the Department of Nursing can be found on pg. 290.

REHABILITATION**Dr. Bruce Reed,**

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Clinical Instructor and Undergraduate Program Coordinator

Full-Time Faculty

Aguirre, Antonio, Clinical Instructor

Blankenship, Charlene, Associate Professor

Chen, Roy, Associate Professor

Diallo, Abdoulaye, Assistant Professor

Fischer, Jerome, Professor

Gonzalez, Rene, Assistant Professor

Graf, Noreen, Professor

Hansmann, Sandra, Associate Professor

Marini, Irmo, Professor

and Doctoral Program Coordinator

Mercado, Fidencio, Clinical Instructor

Miller, Eva, Professor

Reed, Bruce J., Professor

Reid, Charles, Associate Professor

Rivas, Belinda, Clinical Instructor

Saladin, Shawn, Associate Professor

Shefcik, Thomas E., Associate Professor

Silcox, Denise, Clinical Instructor

General Overview

The University of Texas-Pan American offers a Bachelor of Science degree in Rehabilitative Services.

Mission

The Rehabilitative Services Program is an integral part of the Department of Rehabilitation and aligns its mission with the department, the College, and the University. The Program is committed to providing high quality undergraduate education to Rehabilitative Services students on a variety of subjects and issues related to people with disabilities. There is a focus on the integration of theory and practice with an ongoing emphasis on experiential learning.

Goal

The overall goal of the Program is to prepare graduates to enter the workforce in professional positions with the requisite skills, knowledge, and attitudes to assist people with disabilities to lead full, independent lives. Graduates are also well prepared to enter graduate school.

Objectives

- 1. Graduates will gain the ability to perform case management, job placement, and vocational assessment services for people with disabilities.
- 2. Graduates will have an attitude that respects the individual and shows an understanding of the disability experience.
- 3. Graduates will gain the knowledge about rehabilitation/psychological theories, practices, legislation, and public policy as related to people with disabilities.
- 4. Graduates will gain the knowledge of medical and psychological aspects of disabilities.
- 5. Graduates will gain the ability to apply technology to assist individuals with disabilities to enhance their quality of life.
- 6. Graduates will have completed a capstone course which requires reflection on their clinical field experience.

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.

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. Through our deaf rehabilitation concentration students are prepared to engage in the careers above, but with a focus on individuals with hearing loss.

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 will declare the major as rehabilitative service prior to the year in which they take upper-division rehabilitative service courses. Students will have a minimum 2.4 GPA upon starting upper-division rehabilitative courses.

Program Standing and Academic Progression

Students are required to maintain a 2.4 GPA or better in all rehabilitative service courses. If a student has a GPA lower than 2.4 in rehabilitative services courses, he/she will have two consecutive semesters to increase the GPA to 2.4 or better in rehabilitative services courses. If a student fails to increase their GPA to 2.4 in rehabilitative services courses after two consecutive courses, they are not permitted to continue the program.

Readmission

Students must submit a written request for readmission after a one-semester suspension for not achieving a 2.4 GPA after two consecutive semesters.

Degree Requirements

Major in Rehabilitative Services (BS Degree)

University Core Curriculum	43 hrs.
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Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

Major Requirements for BS Rehabilitative Services

General Option

60 hrs.

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	PracticumI
REHS	4360	Assistive Technology
REHS	4602	PracticumII
REHS	4355	Multicultural Issues in Human Services
PSY	4313	Abnormal Psychology
PSY	3337	Development Psychology - Lifespan

And one class from the following:

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

BS Rehabilitative Services Addiction Studies Concentration

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	3340	Intermediate Aspects in Addiction Studies
REHS	4301	Vocational Assessment
REHS	4302	Job Placement
REHS	4303	Case Management II
REHS	4310	Rehabilitation Research
REHS	4330	Clinical Topics in Rehabilitation
REHS	4340	Clinical Issues in Addiction Studies
REHS	4345	Culture, Family, and Prevention in Addictions
REHS	4360	Assistive Technology
REHS	4602	Clinical Practicum in Rehabilitation

PSY **4313** Abnormal Psychology

Major Requirements BS Rehabilitative Services

Deaf Studies Concentration

60 hrs.

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	3335	Sign Language III
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

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 pg. 291.

SOCIAL WORK

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Feldman, Janis B., Associate Professor
Gonzalez, John, Assistant Professor
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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 the social welfare system, the social work profession and the knowledge necessary for generalist social work practice. The 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 2.7 (effective Jan. 1, 2014) GPA is required for entry into the major. Academic advisement is required for all social work majors. 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. Students who qualify may also apply for membership in the Phi Alpha Mu Social Work Honor Society.

Application Requirements and Procedures

To apply to become a (BSW) social work major, you must have the following:

- 2.7 cumulative GPA (effective Jan. 1, 2014)
- At least 30 hrs. of University core curriculum requirements with a 2.0 GPA
- SOCW 1313 Introduction to Social Work Profession with a grade of C or higher
- 6 hours of freshman English with a grade of C or higher
- 3 hours of college algebra or higher-level mathematics with a C or better
- You must complete an application process that includes the following:
 - Application for Admission into the BSW Program
 - A 300-500-word essay on your interest in becoming a professional social worker
 - Copy of unofficial UTPA transcript or degree audit

Before becoming a social work major, you can be designated as a pre-social work major using the code HSH-NON-PSOW. As a

pre-social work major, you may not take upper-division social work courses, but you can enroll in any required University core curriculum courses, support courses and the following lower-division social work courses:

SOCW 1313	Introduction to Social Work Profession
SOCW 2314	Social Welfare Institution
SOCW 2375	Statistical Methods for Human Services

Progression Policies

After being admitted into the program, you will be required to meet with an advisor from our faculty every semester before registering for the following semester. The advisor will explain the social work degree plan and help guide you through the program.

During the last semester, you must complete a 480-hour field internship (SOCW 4619) or student may select the split option (SOCW 4354 & SOCW 4355) and the field education seminar (SOCW 4353). You must have a cumulative GPA of 2.7 and no incomplete grades. Your advisor will review your degree plan to confirm that you meet all requirements to enroll in the field practicum course. If you would like to be considered for admission into the major for summer or fall, it is best to apply before April 30, and for spring admission before Nov. 30.

Under academic progression requirements, the following courses require a grade of C or higher to progress through the course sequence requirements:

SOCW 3323 Social Work Practice I, with a grade of C or higher.
SOCW 4301 Social Work Practice II, with a grade of C or higher.
SOCW 4302 Social Work Practice III, with a grade of C or higher.

The program adheres to the Student Academic Responsibilities and Appeals policy found in the current UTPA Undergraduate Catalog.

Degree Requirements

MAJOR IN SOCIAL WORK

University Core Curriculum Requirements	43 hrs.
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Complete the core curriculum requirements shown on pg. 97 of this catalog except for the sections, groups or areas listed below, which must be satisfied only as shown below.

Social Work Core Courses (30 hrs. are advanced)	39 hrs.
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SOCW 1313	Introduction to the Social Work Profession
SOCW 2314	The Social Welfare Institution
SOCW 2375	Statistical Methods
SOCW 3321	Human Behavior and

SOCW 3322	the Social Environment I 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 Education Block

Support Courses	30 hrs.
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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
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Twelve hours of Upper-Division Electives:

CRIJ, REHS, SOCW, PSY, SOCI, POLS, or ANTH

General Electives	8 hrs.
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Eight general elective (advanced or non-advanced) hours from any course approved by the University.

TOTAL	120 hrs.
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Course Descriptions

A listing of courses offered by the Department of Social Work can be found on pg. 293.

CLINICAL LABORATORY SCIENCES

CLSC 2429 Clinical Microbiology in Health Care [3-3]

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.

Prerequisites: Eight hours of biology.

CLSC 3100 Introduction to Clinical Laboratory Science [1-0]

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 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. **Prerequisites:** 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. **Prerequisites:** Admission into the Clinical Laboratory Science Program or approval of the instructor.

CLSC 3513 Clinical Immunology and Immunochemistry [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 immunochemistry applications. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** Admission into the Clinical Laboratory Sciences Program.

CLSC 4314 Advanced Immunochemistry [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. **Prerequisites:** 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.

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]

(Texas Common Course Number is SGNL 1301)

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. **Prerequisites:** None. ASHA Standards III C, D.

COMD 1320 Intermediate Sign Language [3-0]

(Texas Common Course Number is SGNL 1302)

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. **Prerequisites:** 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 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.. ASHA Standards III B, C, D, IV G a, b, c.

COMD 3355 Survey of Neurological Disorders [3-0]

spring
The course provides an introduction to acquired speech, language, cognition, and swallowing disorders resulting from brain injury. Basic neurophysiology is reviewed followed by discussion of etiology, diagnosis, treatment, and prognosis, of these disorders. Emphasis will be placed on aphasia, motor speech disorders, right hemisphere dysfunction, traumatic brain injury, and dementia. **Prerequisites:** C or higher in each of the following: COMD 2310, COMD 3320, COMD 3310, COMD 3315; COMD 3330.

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]

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 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, 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.

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. Two 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 [9-0]

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. Standardization of recipes and cost controls are considered. 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 3257 Junior Seminar in Dietetics [2-0]

spring

Review and discussion of all topics related to Food Service and Clinical Nutrition. Extensive exam preparation for the Junior Comprehensive Exam will be emphasized.

DIET 3353 Advanced Nutrition [3-0]

fall

Study of advanced nutrition and human metabolism; cells and their nourishment; digestive system; energy transformations; macronutrients (carbohydrates, lipids, and proteins) and their metabolism; regulatory nutrients (vitamins and minerals) and their metabolism; body fluids and electrolyte balance; body composition and energy expenditure. **Prerequisites:** CHEM 2302, DIET 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 3252, DIET 3253, 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 [2-3]

fall

Introduction to the concepts of providing nutritional care to individuals and medical nutrition therapy. Topics include nutritional assessment procedures (anthropometrics, biochemical, clinical and dietary) and nutrition care process, basic principles of interviewing and counseling, diabetic and renal calculations, total parenteral nutrition (TPN) and tube feeding methods, and use of computer software 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 medical nutrition therapy and nutrition care process. Development of ability to translate dietary prescription into meal plans that will satisfy nutritional, emotional and cultural needs of people. **Prerequisites:** DIET 3357 and admission to the Coordinated Program in Dietetics.

DIET 3655 Food Systems Management Practicum [0-18]
 spring
 Selected problems and clinical experiences directly correlated to DIET 3354. Supervised practice in organization and management of a food service system and basic operational subsystems (procurement, inventory, production, distribution, sanitation and fiscal control). Eighteen hours clinical experience per week. **Prerequisites:** DIET 3252 DIET 3253, DIET 3353 and DIET 3356 and concurrent enrollment in DIET 3354.

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. **Prerequisites:** 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. **Prerequisites:** DIET 4359, DIET 4752 and admission to the Coordinated Program in Dietetics

DIET 4259 Seminar in Dietetics [2-0]
 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 4356 General Dietetics Practicum [12-0]
 spring
 Integration of nutritional care and dietetic services 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 12 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, and the food and nutrition programs geared toward these groups. **Prerequisites:** DIET 3358 and admission to the Coordinated Program in Dietetics

DIET 4455 Community Nutrition Practicum [0-0-16]
 spring
 Clinical experience includes observation and participation with selected community agencies and schools. Techniques for teaching effective nutrition groups. Survey of major problems arising from food habits of population groups, including the study of Mexican American culture. **Prerequisites:** DIET 4359, DIET 4752 and admission to the Coordinated Program in Dietetics.

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. **Prerequisite:** DIET 3358 and admission to the Coordinated Program in Dietetics.

HEALTH-RELATED PROGRAMS

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.

NURSING

NURS 2301 Wellness [2-3]

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 3203 Health Promotion [2]

This course expands on the concepts of wellness, health promotion, health maintenance, health restoration, and health protection (disease prevention) across the life span. Critical thinking, teaching-learning, and the nursing process will be highlighted. Students must receive course credit in order to progress in the BSN Program. **Prerequisites:** NURS 3302, NURS 3403, and NURS 3604. Students may not receive credit for both NURS 3203 and NURS 3408.

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 3301 Professional Mobility [3-0]

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 3302 Pharmacology [3-0]

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 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 BSN faculty.

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: None 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 3302, NURS 3403, NURS 3604, and/or consent of the BSN faculty.

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 3302, NURS 3403, and NURS 3604.

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 4504 Community Health Nursing [2-12]

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 3203, 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 3203, 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.

REHABILITATION SERVICES

REHS 2301 Introduction to Rehabilitation [3-0]

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]

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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]

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 3350

This course provides a comprehensive overview of substance abuse prevention theories and prevention programming applications. Course topics include theories and models basic to prevention, science based prevention strategies and model programs, strategic planning and outcome evaluation.

Prerequisite: REHS 2321

REHS 4301 Vocational Assessment

[3-0]

as scheduled

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]

as scheduled

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]

as scheduled

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]

as scheduled

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 Practicum I

[3-0]

as scheduled

This course allows students to apply theory to practice within the field of rehabilitation services. Students are exposed to professional management activities as well as begin their supervised field experience. Students will review the process for setting up a placement, understanding professional and program requirements for securing a practicum site, and complete a series of critical thinking and reflective assignments. Students will learn to uphold the tenets of ethical professional practice. Students will be required to complete a minimum of 50 hours of clinical experience at an approved field placement site which can include orientation and site-specific training. **Prerequisite:** REHS 2301 and REHS 2331

REHS 4335 Sign Language IV

[3-0]

as scheduled

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]
as scheduled
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 4380 Animals in Rehabilitation Services [3-0]
This course is an introduction to the human-animal health connection and its therapeutic applications. It is designed for students in a wide variety of fields who wish to further their

knowledge and explore career opportunities in this emerging, multi-disciplinary field. Students will examine how contact with animals can enhance human health and wellbeing when incorporated into rehabilitation, health care, social services, psychology, education, physical, occupational and speech therapy, and many more fields. The course will explore conceptual frameworks, research, and practical techniques that will empower students to introduce animals in a variety of milieus. Students will learn to protect the rights of the animal in accordance with nationally endorsed standards of care for the inclusion of animals in therapeutic settings.

REHS 4602 Practicum in Rehab
REHS 4602 Clinical Practicum in Rehabilitation fall, spring, summer Practical experience in a supervised setting aimed at the integration of theory and practice and refinement of skills. The course requires a minimum of three hundred and sixty (360) clock hours within an approved practicum setting plus attendance at weekly group supervision meetings. The practicum setting must meet specific program requirements and be approved by the University practicum supervisor. **Prerequisites:** Completion of all REHS concentration courses and program approval.

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]
(Texas Common Course Number is SOCW 2362.)
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. **Prerequisites:** Math 1340 or higher math.

SOCW 3314 Social Welfare Policy and Programs [3-0]
as scheduled
This course examines economic, political, intellectual, socio

cultural, 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]

as scheduled

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]

as scheduled

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]

as scheduled

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 3361 Child Maltreatment [3-0]

as scheduled

Explores all facets of child maltreatment. It covers the tenets child protection, major types of child maltreatment, factors contributing to child maltreatment, and the relationship between child maltreatment and child protective services. Moreover, the course examines federal and state laws and the role of the court system for providing intervention and social services in the prevention of child maltreatment.

SOCW 3362 Foster Care and Adoption [3-0]

as scheduled

Explores foster care and adoptions as integrated components of child welfare services. The course examines the many aspects that are involved in providing foster care services to children and families. In addition, the course focuses on permanency planning for children when family reunification is not possible.

SOCW 3363 Working with Resistant Clients [3-0]

This course identifies and examines working approaches that are conducive to effective changes or outcomes when working with involuntary or resistant clients. SOCW 3364

SOCW 3364 Social Work Values and Ethics [3-0]

This course is designed to examine social work values in the context of ethical decision making in social work practice. Students will learn to apply principles, techniques and tools that can be used for ethical assessment and decision making. They will learn to recognize ethical issues in social work practice and will examine how values affect decision making.

They will learn to consider competing arguments in resolving ethical dilemmas, as well as the strengths and limitations of their own position in order to reach thoughtfully reasoned conclusions. Special emphasis will be placed on ethical practice in the child welfare arena

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]

as scheduled

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]

as scheduled

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 4354 Field Education I [0-0-16]

fall

This course is the first half of the social work practicum requirement for undergraduate social work students who choose to complete their practicum in two consecutive semesters. The course requires a minimum of 240 hours in the first semester of in-the-field experience in established social agencies or community settings under joint supervision of the agency social worker and a Department of Social Work faculty member. The course is taken concurrently with SOCW 4353 Integrative Seminar. **Prerequisites:** Completion of all social work core courses and approval by the Office of Field Education.

SOCW 4355 Field Education II [0-0-16]

spring

This course is the second half of the social work practicum requirement for undergraduate social work students who have successfully completed Field Education I and have chosen to complete their practicum in two consecutive semesters. The course requires a minimum of 240 hours in the first semester of in-the-field experience in established social agencies or community settings under joint supervision of the agency social worker and a Department of Social Work faculty member. **Prerequisite:** SOCW 4354; Completion of all social work core courses and approval by the Office of Field Education.

SOCW 4370 Mexican American Mental Health [3-0]

as scheduled

This course examines cultural and systematic barriers which limit access to mental health services by Mexican Americans. Attention also given to the development of strategies for improving service delivery. **Prerequisites:** None.

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 Block [0-0-32]

fall, spring, summer I

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:** Completion of all social work core courses and approval by the Office of Field Education..

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: None. Cross-listed as NURS 3309 Women's Health Issues.

COLLEGE OF SCIENCE AND MATHEMATICS

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Dean

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GENERAL OVERVIEW

The College of Science and Mathematics provides a strong scientific and technical foundation for all students of UT Pan American. Known for its top-quality research programs, involving undergraduate and graduate students in all areas of science and mathematics, the college is also recognized for its strong teacher preparation programs. Many of our students have attended graduate school or gone on to careers in K-12 education, faculty at community colleges and universities, state and federal government agencies, and private enterprise.

The college consists of the Departments of Biology, Chemistry, Mathematics, and Physics and Geology, which supports various pre-health programs, Environmental Science Program, Center for Subtropical Studies, and the STEM Center (Science, Technology, Engineering, and Mathematics). The Coastal Studies Laboratory, located on South Padre Island, Texas, supports a diversity of research projects, provides K-12 informal education programs, and engages the community in outreach activities relevant to the semi-arid, subtropical coastal ecosystem of southern Texas.

We take pride in our students and strive to make their undergraduate experience in science and mathematics rewarding and enlightening. The College of Science and Mathematics is ranked nationally – first in the number of bachelor's degrees awarded to Hispanics in biological and biomedical sciences and second in mathematics, and second in the number of Hispanics admitted into medical schools.

Academic Programs

The College of Science and Mathematics offers a Bachelor of Science in biology, chemistry, environmental science, mathematics, physics, and physical sciences. Minors are available in biology, chemistry, biochemistry, mathematics, statistics, geology, astronomy, physics, physical science, earth

science, and geographic information system. Secondary school teacher certifications are offered in science, life science, earth science, chemistry, mathematics, and physical science. Also included in the biology and chemistry departments are pre-dental, premedical, pre-optometry, and pre-pharmacy degree curricula.

Mission

The College of Science and Mathematics is committed to excellence in all aspects of scholarship, including instruction, student performance, research, and professional service. The college continues to enhance its efforts to establish nationally recognized research programs that can serve faculty, undergraduate and graduate students in all areas of science and mathematics including a strong teacher preparation program in science and mathematics.

SPECIAL Program in Teacher Certification

UTeach

The UTeach-Pan American program is a four-year, teacher preparation program for science and math majors modeled after the nationally recognized UTeach program established at The University of Texas at Austin in 1997. The purpose of UTeach-Pan American is to meet the critical need for highly qualified math and science teachers in the Rio Grande Valley. UTeach offers a nationally recognized curriculum that uses innovative approaches and instruction specifically designed to train math and science teachers. UTeach graduates receive a degree in either mathematics or a science discipline (biology, chemistry, physics, or physical science) and a teaching certificate.

The program consists of introductory, one-hour UTCH courses for the teaching profession that students can take as early as the freshmen year of enrollment at UTPA. UTCH courses emphasize research, hands-on learning, projects and the integration of math and science.

For more information about UTeach- Pan American, please contact us at uteach@utpa.edu. The UTeach Office is located in the Department of Curriculum and Instruction, EDCC 2.510, in the Education Complex on the northeast side of the campus. It is open from 9:00 a.m. until 5:00 p.m. during the week.

Special Programs in Medicine and Dentistry

The Department of Biology houses a Special Programs Office (SCNE 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) 665-5216 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
- Six-year B.S./MD. program with UT Medical School in Houston and UT Medical Branch in Galveston

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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Department Chair

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Full-Time Faculty

Banu, Jameela, Assistant Professor
Brush, Timothy, Professor
Dearth, Robert, Assistant Professor
DeYoe, Hudson, Professor
Dirrigl, Jr., Frank, Assistant Professor
Edwards, Robert J., Professor
Farooqui, Mohammed Y. H., Professor
Faulkes, Zen, Associate Professor
Feria, Teresa Patricia, Assistant Professor
Gilkerson, Robert, Assistant Professor
Gunn, Bonnie, Lecturer
Gunn, Scott J., Professor
Judd, Frank W., Research Professor
Kuang, Anxiu, Professor
Lieman, Jonathan, Assistant Professor
Lowe, Kristine, Associate Professor
Materon, Luis A., Professor
McDonald, Andrew J., Associate Professor
Pereyra, Maria, Assistant Professor
Persans, Michael W., Associate Professor
Plas, Daniel, Assistant Professor
Schuenzel, Erin, Assistant Professor
Summy, Kenneth R., Associate Professor
Terry, Matthew, Associate Professor
Vitek, Christopher, Assistant Professor
Wedig, Cindy M., Lecturer
Zaidan, Frederic III, Associate Professor

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 of Science 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 and the chair of the Department of Biology.

NOTE: Students are typically expected to furnish their own transportation for field labs.

Degree Requirements

MAJOR IN BIOLOGY

University Core Curriculum Requirements 43 hrs.

Complete the University core curriculum requirements as shown on pg.s 97 of this catalog, using CHEM 1301, 1101, 1302, and 1102 to satisfy the eight hours of natural science requirement.

Core Courses 12 hrs.

- 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 20 hrs.

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 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 2402 Comparative Vertebrate Anatomy
- BIOL 3405 Histology
- BIOL 3406 Developmental Mechanisms
- BIOL 3407 Comparative Embryology
- BIOL 3408 Plant Morphology

Organismal or Environmental Biology

- BIOL 2406 Environmental Biology
- BIOL 3409 Ecology
- BIOL 3404 Conservation Biology

- BIOL 3414 Invertebrate Zoology
- BIOL 4303 Mammalogy
- BIOL 4304 Ichthyology
- BIOL 4318 Ethnobotany
- BIOL 4319 Medical Entomology
- BIOL 4388 Global Change Ecology
- BIOL 4402 Marine Zoology
- BIOL 4403 Introduction to Remote Sensing Technology
- BIOL 4406 Mycology
- BIOL 4407 Animal Parasitology
- BIOL 4408 Plant Pathology
- BIOL 4409 Herpetology
- BIOL 4410 Marine Botany
- BIOL 4412 Ornithology
- BIOL 4414 Plant Taxonomy
- BIOL 4415 Entomology
- BIOL 4416 Environmental Toxicology
- BIOL 4419 Aquatic Entomology
- BIOL 4424 Microbial Ecology
- BIOL 4426 Marine Ecology
- BIOL 4427 Marine Animal Field Studies Physiology
- BIOL 2403 Anatomy and Physiology
- BIOL 2404 Anatomy and Physiology
- BIOL 3310 Neurobiology
- BIOL 3411 Mammalian Physiology
- BIOL 4313 Endocrinology
- 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

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 adviser at (956) 665-3540 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 UT 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 1460, 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.

Core Curriculum Requirement

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 7-12) should consult with their adviser 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) 665-3420 or visit www.utpa.edu/colleges/coe/studentservices for more information.

The professional education courses for high school (7-12) certification include the following: UTCH 1101, UTCH 1102, UTCH 3301, UTCH 3302, UTCH 3302, UTCH 3303, UTCH 4701, and READ 4351.

University Core Curriculum Requirements 43 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog, using CHEM 1301, 1101, 1302, and 1102 to satisfy the eight hours of natural science requirement and PHIL 3301 Perspective in Science and Mathematics to fulfill the philosophy and modern or classical language literature requirement.

Core Courses 18 hrs.

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
BIOL	4391	Functions and Modeling
BIOL	4392	Research Methods

Designated Electives 20 hrs.

Select at least three hours from each of the following areas:

Molecular Biology or Cellular Biology

BIOL	3406	Developmental Mechanisms
BIOL	3412	Cell Biology
BIOL	3415	Molecular Biology
BIOL	4330	Molecular Evolution
BIOL	4404	General 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 4318	Medical Entomology
BIOL 4407	Animal Parasitology
BIOL 4409	Herpetology
BIOL 4402	Marine Zoology
BIOL 4412	Ornithology
BIOL 4415	Entomology
BIOL 4419	Aquatic Entomology
BIOL 4422	Neurobiology Methods
	Botany
BIOL 3408	Plant Morphology
BIOL 4405	Plant Physiology
BIOL 4414	Plant Taxonomy
BIOL 4318	Ethnobotany
BIOL 4403	Remote Sensing
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 adviser 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) 665-3420 or visit www.utpa.edu/colleges/coe/student-services for more information.

The professional education courses for middle school (4-8) certification include the following: EDUC 4301, EDUC 4302,

EDUC 4303, EDUC 4304, READ 3326, and EDUC 4611.

University Core Curriculum Requirements 43 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog, using PSCI 1421 and 1422 to satisfy the eight hours of natural science requirement.

Middle School Content 50 hrs./24 adv.

ASTR 1401	General Astronomy
BIOL 1401	General Biology
BIOL 1402	General Biology
BIOL 2406	Environmental Biology
BIOL 3301	Evolution
BIOL 3409	Ecology
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
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

One of the three following courses:

BIOL 3404	Conservation Biology
GEOL 3401	Stratigraphy-Sedimentation
GEOL 4302	Environmental Geology

Professional Development 15 hrs.

EDUC 4301	Teaching and Learning in Contemporary Schools
EDUC 4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303	Teaching Special Populations in Inclusive Classrooms
EDUC 4304	Instructional Planning and Assessment
EDUC 4611	Student Teaching

Additional Requirements 12 hrs.

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 3 hrs.

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 pg. 317.

ENVIRONMENTAL SCIENCE

Dr. Robert J. Edwards,
Director

Science Building, Room 1.316
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3537
Fax: (956) 665-3657
E-mail: redwards@utpa.edu

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 hrs.

Complete the requirements shown in the core curriculum requirements section on pg. 97 of this catalog EXCEPT for the following sections, groups or areas listed, which must be

satisfied only as shown.

Natural Science and Mathematics

MATH 1460 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 3404 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 1460 Calculus I

MATH 2330 Elementary Statistics and Probability

ENSC 3400 Environmental Science
and Public Policy

ENSC 3401 Environmental Regulations and
Impact Analysis

Designated Electives

21 hrs.

Select a minimum of 21 hours from the following list of courses

BIOL 2406 Environmental Biology

BIOL 3409 Ecology

BIOL 4308 Global Change 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

ENSC 3300 Environmental Ethics

ENSC 3301 Environmental Approaches to
Sustainable Development

GEOL 3308 Introduction to Geographic
Information Systems

GEOL 3310 Hydrologic Systems

GEOL 3401 Geomorphology

GEOL 3403 Oceanography

GEOL 3404 Sedimentology & Stratigraphy

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. John R. Villarreal,

Department Chair
Science Building, Room 3.360
1201 W. University Drive
Edinburg, TX 78539-2999
Telephone: (956) 665-3371
Fax: (956) 665-5006
E-mail: villajr@utpa.edu
www.utpa.edu/dept/chemistry

Full-Time Faculty

Ahmad, Hassan, Professor
Banik, Bimal K., Presidential Endowed Professor
Bhat, Narayan G., Professor and Chair
Bullard, James, Assistant Professor
Diaz, Sylvia, Lecturer
Gutierrez, Jose J., Associate Professor
Ibrahim, Elamin, Associate Professor
Kotsikorou, Evangelia, Assistant Professor
Macossay-Torres, Javier, Associate Professor
Mao, Yuanbing, Assistant Professor
Parsons, Jason, Assistant Professor
Rampersad-Ammons, Joanne, Assistant Professor
Smith, Christopher, Assistant Professor
Villarreal, John, Professor
Whelan III, Thomas, Professor

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 minors in biochemistry and 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. Through the department, undergraduate research projects are offered 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 adviser within the department. Students are encouraged to consult with their faculty adviser 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 hrs.
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Complete the requirements shown in the University core curriculum requirements section on pg. 97 of this catalog EXCEPT for the following sections, groups or areas listed, which must be satisfied only as shown.

University Core Curriculum Requirements	43 hrs.
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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 hrs. 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 hrs.

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 hrs.

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 7-12) should consult with their adviser 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) 665-3420 or visit <http://www.utpa.edu/colleges/coe/studentservices> for more information.

The professional education courses for high school (7-12) certification include the following:

UTCH 1101, UTCH 1102, UTCH 3301, UTCH 3302, UTCH 3302, UTCH 3303, UTCH 4701, and READ 4351.

MAJOR IN CHEMISTRY 7-12 CERTIFICATION (UTEACH PROGRAM)

University Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum requirements section on page 98 of this catalog EXCEPT for the following sections, groups or areas listed, which must be satisfied only as shown.

University Core Curriculum Requirements 43 hrs.

Philosophy and Modern or Classical Language Literature

PHIL 3301	Perspectives in Science and Mathematics
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Natural Science and Mathematics

CHEM 1301	General Chemistry I
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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 hrs.

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

UTeach Requirements:

CHEM 3330	Functions and Modeling
CHEM 4392	Research Methods

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, ECON 1301,

PHYS 1402 and a minimum of 15 hours of electives in the humanities and social sciences. See the faculty adviser 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 hrs.

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 hrs.

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 pg. 323.

MATHEMATICS

Dr. Andras Balogh,

Department Chair

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Dr. Virgil Pierce,

Assistant Chair

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Dr. Kenichi Maruno,

Undergraduate Coordinator

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Full-Time Faculty

Altecor, Tatiyana, Lecturer
Andaverdi, Saul, Lecturer
Balogh, András, Professor
Bernard, John E., Professor
Bhatta, Dambaru, Associate Professor
Bose, Ramendra, Assistant Professor
Bracken, Paul, Associate Professor
Chakraborty, Santanu, Associate Professor
Colson, Roberto, Lecturer
Debnath, Lokenath, Professor
Ebaseh-Onofa, Benjamin O., Associate Professor
Feng, Bao-Feng, Associate Professor
Feng, Zhaosheng, Associate Professor
Galstyan, Anahit, Associate Professor
Garza, Guillermo, Lecturer
Gkioulekas, Eleftherios, Assistant Professor
Gonzalez, Anna, Clinical Instructor
Heller, William, Associate Professor
Huber, Timothy, Assistant Professor
Knobel, Roger A., Jr., Associate Professor
Lawton, Sean, Assistant Professor
Li, Shuxia, Lecturer
Mahmood, Salma, Lecturer

Maruno, Kenichi, Associate Professor
Nguyen, Nam, Lecturer
Onica, Constantin, Assistant Professor
Padilla-Oviedo, Andres, Lecturer
Pierce, Virgil, Associate Professor
Poletaeva, Elena, Associate Professor
Qiao, Zhijun, Professor
Rai, Rajendra, Lecturer
Ramirez, Olga M., Professor
Riahi, Daniel, Professor
Roy, Ranadhir, Associate Professor
Roychowdhury, Mrinal, Assistant Professor
Sears, Tim, Clinical Instructor
Taylor, Monty B., Professor
Torres, J. Rene, Lecturer
Tsay, Jenq-Jong, Associate Professor
Villalobos, Maria Cristina, Associate Professor
Wang, Xiaohui, Associate Professor
Watkins, William, Professor
Wiener, Bella, Lecturer
Yagdjian, Karen, Associate Professor
Yanev, George, Associate Professor
Yoon Ann, Eun-Mee, Lecturer
Yoon, Jasang, Assistant Professor

Mission

Overall Mission Statement of The Mathematics Department

- To support the College of Science and Mathematics mission statement by committing to excellence in instruction, student performance, research, scholarly accomplishment and professional service.
- To provide students of mathematics an environment of academic freedom that will ensure the exchange of ideas and the dissemination of knowledge and the appreciation of mathematics.
- To inspire students with and appreciation of the impact of mathematics in a global economy, and respect for the contributions made by previous generations.
- To provide students analytical foundations empowering them to pursue chosen courses of study where they can apply mathematics meaningfully for the purpose of contributing to current and future societal needs.

Undergraduate Program Mission Statement

- To provide a selection of courses satisfying the core requirements in mathematics. These courses, taught

by faculty scholars, instill in students an appreciation for the impact of mathematics in a global environment and develop their respect for the contributions made by previous generations.

- To provide service courses for other departments. These courses improve student's analytical foundations empowering them to pursue chosen courses of study.
- To provide students with problem solving and critical thinking skills for use in a rapidly changing society.

Degree Programs

The Department of Mathematics offers a major in mathematics leading to a Bachelor of Science degree with six concentrations: Applied Mathematics, Pure 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 7-12 Certification, Middle School Mathematics, and Statistics.

Degree Requirements

BACHELOR OF SCIENCE
IN MATHEMATICS

University Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum section on page 98 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Section C. Mathematics

MATH 1460 is the recommended beginning course.

Section D. Humanities

Group 3. Philosophy and Modern or Classical
Language Literature
PHIL 3301 is required for the 7-12 Mathematics Concentration

Core Requirements for
Mathematics Major

(required for all concentrations) 30 hrs.

- 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 I (grade of C or better)
- MATH 4357 Real Analysis I (grade of C or better)

For the Applied Mathematics, Pure Mathematics, Statistics, and Science and Engineering concentrations:

- MATH 4390 Mathematics Project

For the Secondary Mathematics and Middle School Mathematics concentrations:

- SMAT 4392 Research Methods

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 hrs.

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 4391, MATH 4399* (*MATH 4399 can be used only once).

Other Advanced MATH Electives: 3 hours of any advanced MATH electives other than MATH 3373.

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/CMPE. At least one CSCI/CMPE programming course at or above CSCI/CMPE 1370 must be in the core or concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

Pure Mathematics Concentration 47 hrs.

Required Courses

- MATH 4304 Modern Geometry

	or	
MATH 4302	Number Theory	
MATH 4317	Complex Variables	
MATH 4360	Topology	

Designated Advanced MATH Electives:

3 hours from MATH 4XXX courses or MATH 3349, MATH 3355, MATH 3366, MATH 3368

6 hours from MATH 4XXX courses. (It is recommended that one of the electives complete an advanced sequence: Topology/Differential Geometry or Modern Algebra I/Algebra II or Algebra I/Linear Algebra or Real Analysis I/Analysis II or Algebra I/Algebraic Geometry.

Other advanced MATH electives: 3 hours of any advanced MATH electives other than MATH 3373.

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/CMPE. At least one CSCI/CMPE programming course at or above CSCI/CMPE 1370 must be in the core or concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

SECONDARY MATHEMATICS CONCENTRATION

Requirements 48 hrs.

Required Courses

MATH 3303	History of Mathematics
MATH 3333	Mathematics in a
	Computer Environment
MATH 3366	Discrete Mathematics
MATH 4302	Number Theory
MATH 4304	Modern Geometries
SMAT 3330	Functions and Modeling
SMAT 4311	Advanced Study Secondary Geometry
SMAT 4312	Advanced Study Secondary Algebra

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/CMPE. At least one CSCI/CMPE programming course at or above CSCI/CMPE 1370 must be in the core or concentration.

Grade of C or better is required in all MATH and SMAT courses.

Required Teacher Preparation Courses

UTCH 1101	Inquiry Approaches to Teaching
UTCH 1102	Inquiry-Based Lesson Design
UTCH 3301	Knowing and Learning in Math and Science
UTCH 3302	Classroom Interactions
UTCH 3303	Project-Based Instruction
UTCH 4701	Apprentice Teaching
READ 4351	Reading in the Content Area

MIDDLE SCHOOL MATHEMATICS CONCENTRATION

Requirements 51 hrs.

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
EDUC 4301	Teaching and Learning in Contemporary Schools
EDUC 4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303	Teaching Special Populations in Inclusive Classrooms
EDUC 4304	Instructional Planning and Assessment
EDUC 4611	Student Teaching

Statistics Concentration Requirements 47 hrs.

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 other than MATH 3373.

Computer Science: 3 hours of CSCI/CMPE. At least one CSCI/CMPE programming course at or above CSCI/CMPE 1370 must be in the core or concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

Additional Requirements: At least one physics course with lab must be in the core or concentration.

Science and Engineering Concentration Requirements 47 hrs.

3 hours of any advanced MATH electives other than MATH 3373.

3 hours of COSE electives (excluding MATH, STAT, MMAT, EMAT, SMAT, MATS).

18 hours of advanced COSE electives (excluding MATH, STAT, MMAT, EMAT, SMAT, MATS).

Computer Science: 3 hours of CSCI/CMPE. At least one CSCI/CMPE programming course at or above CSCI/CMPE 1370 must be in the core or concentration.

General Electives: 8 additional hours from any subject.

General Advanced Electives: 12 additional advanced hours from any subject.

Additional Requirements: At least one physics course with lab must be in the core or this concentration.

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 hrs.

Complete the requirements shown in the University core curriculum requirements section on pg. 97 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Section C. Mathematics

MATH 1450 is required

Middle School Mathematics Requirements		36 hrs.
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 hrs.
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 hrs.
EDUC	4301	Teaching and Learning in Contemporary Schools
EDUC	4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC	4303	Teaching Special Populations in Inclusive Classrooms
EDUC	4304	Instructional Planning and Assessment
EDUC	4611	Student Teaching

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 adviser 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 9 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 3366, 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 6 hours chosen from MATH 3303, MATH 3333, MATH 3366, 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 pg. 329.

PHYSICS AND GEOLOGY

Dr. Nikolaos Dimakis,
Interim Department Chair

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Full-time Faculty

Bhatti, Muhammad, Professor
Chipara, Dorina, Assistant Professor
Chipara, Mircea, Associate Professor
Corpuz, Edgar, Associate Professor
Corpuz, Ma Aileen, Lecturer
Dimakis, Nikolaos, Associate Professor
Faust, John, Lecturer
Gonzalez, Juan, Assistant Professor
Hannan, Mohammad, Associate Professor
Hardage, Sarah, Lecturer
Hinthorne, James, Senior Lecturer
Kachiraju, Satya, Lecturer
Lee, Hyun-Chul, Lecturer
Mazariegos, Rubén A., Associate Professor
Pereyra, Nicolas, 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 in physical science, Bachelor of Science in physics and minors in astronomy, earth science, geographic information systems (GIS), geology, physical science, and physics. The department also offers secondary and elementary teaching fields in physics, physical science and earth science as well as a Master of Science in Interdisciplinary Studies (MSIS) in physics geared toward teachers.

The departmental program includes interdisciplinary research and teaching that brings the unique perspectives of physics, geology, and astronomy to scientific problems at many spatial and temporal scales. Departmental areas of expertise encompass a range of physics, geology and astronomy disciplines including, but not limited to astronomy with an active planetarium, atomic, biophysics, computational physics, computational astrophysics, environmental, molecular, nuclear and particle physics, material science, geophysics, earth science, and physics education.

Students are encouraged to actively participate in research endeavors being conducted by faculty. Research facilities include a number of experimental laboratories: Remote Sensing and GPS, Neutron Activation Analysis, Polymers including self-healing polymers, 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 and physical chemistry software. For more information about the department and course offerings visit the departmental website at www.utpa.edu/physicswww.utpa.edu/dept/physci/.

Degree Requirements

MAJOR IN PHYSICAL SCIENCE

The Bachelor of Science in physical science is a 120-hour degree program consisting of a 43-hour university core curriculum, 24 specified hours of physics, 24 specified hours of chemistry, 8 specified hours of mathematics, 18 specified hours of education, and 3 hours of other specified requirements.

University Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum requirements section on pg. 96 of this catalog EXCEPT for the following sections, groups or areas listed, which must 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 I (Only 3 semester credit hours will be applied to the math core requirement.)

Major Course Requirements

Physics Core Courses 24 hrs.

Physics Core Courses (Offered at least once per year.)

PHYS 2411	Physics for Teachers I
PHYS 2412	Physics for Teachers II
PHYS 3101	Junior Physics Laboratory
PHYS 3402	Modern Physics
PHYS 3303	Thermodynamics
PHYS 3404	Optics
PHYS 4401	Physics Education

Chemistry Core Courses 24 hrs.

CHEM 2302	Organic Chemistry I
CHEM 2102	Organic Chemistry Lab I
CHEM 2303	Organic Chemistry II
CHEM 2103	Organic Chemistry Lab II
CHEM 2301	Analytical Chemistry
CHEM 2101	Analytical Chemistry Lab
CHEM 3304	Physical Chemistry I
CHEM 3104	Physical Chemistry Lab I
CHEM 3303	Biochemistry
CHEM 3103	Biochemistry Lab
CHEM 4401	Chemistry Education

Mathematics Course Requirements:

MATH 1470	Calculus II
MATH 3349	Differential Equations

Physical Science Teaching Certification Option**

Education Course Requirements 18 hrs.

EDUC 4301	Teaching and Learning in Contemporary Schools
EDUC 4302	Human Development and Learning Theories in the EC-12 Classroom
EDUC 4303	Teaching Special Populations in Inclusive Classrooms
EDUC 4304	Instructional Planning and Assessment
EDUC 4611	Student Teaching

Other Requirements 3 hrs.

READ 4351	Development Reading in Secondary Schools
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** 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 adviser 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) 665-3420 or log on to the Web site for more information at <http://www.utpa.edu/colleges/coe/student-services>.

TOTAL 120 hrs.

MAJOR IN PHYSICS

The Bachelor of Science in physics is a 121-hour degree program consisting of a 44-hour university core curriculum, 6 hours of Non-English Language, 36 specified hours of advanced physics, 12 hours of advanced physics electives, a minor in any area (other than Physics) with at least 18 other hours of which 9 must be advanced, and 11 hours of other specified prerequisites in mathematics.

University Core Curriculum Requirements 44 hrs.

Complete the requirements shown in the university core curriculum requirements section on pg. 96 of this catalog EXCEPT for the following sections, groups or areas listed, which must be satisfied only as shown.

Natural Science and Mathematics

PHYS 2401 Physics for Scientists and Engineers I

PHYS 2402 Physics for Scientists and Engineers II

MATH 1460

MATH 1460 Calculus I (only 3 semester credit hours is required by the Registrar fulfill the math core requirement)

Non-English Language Course Requirements 6 hrs

Major Course Requirements

Physics Core Courses 36 hrs.

Advanced 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

Perquisites Mathematics Courses 11 hrs.

MATH 1470 Calculus II

MATH 2401 Calculus III

MATH 3349 Differential Eq.

Physics Electives 12 hrs.

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'

Academic Minor (any area other than Physics) 18-24 hrs.

Consult with an adviser within the academic minor department as requirements for minors vary.

TOTAL 121 hrs.

MINOR IN PHYSICS

Eighteen hours of physics of which nine must be advanced. Required: 8 hour Physics course sequence of either*

PHYS 1401/ PHYS 1402**

or

PHYS 2401/PHYS 2402

***Note:** Only one 8 hour course sequence can be used to count for the 18 Physics credit hours required for the Physics Minor.

****Note:** Students that take the course sequence PHYS 1401/PHYS 1402 will need a prerequisite waiver from the Department Chair to enroll in many of the advanced Physics courses.

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

PHYS 4308 Education 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*

MINOR IN ASTRONOMY

Eighteen hours in Astronomy courses, of which six must be advanced.

Note 1: It is recommended that students fulfill their mathematics core curriculum requirement for their major before taking ASTR 2301 (by taking, for example: MATH 1340 or MATH 1450).

Note 2: For those students planning to take the elective ASTR 3302, it is recommended that they take the series PHYS 2401/2402 as their natural science core requirements for their major, prior to taking ASTR 3302.

Note 3: For those students planning to take the elective ASTR 3303, it is recommended that they fulfill their computer literacy core requirements (by taking, for example CSCI 1380) for the major before taking ASTR 3303.

Required Courses 12 hrs.*

ASTR 1401 Introduction to Astronomy I
ASTR 1402 Introduction to Astronomy II
ASTR 2101 Astronomy Night Lab
ASTR 2301 Solar System Astronomy

Advanced Required Course 3 hrs.

ASTR 3301 Stellar and Galactic Astronomy

Advanced Elective Course (Choose One) 3 hrs.

ASTR 3302 Introductory Astrophysics
or
ASTR 3303 Introduction to Numerical Modeling in Astronomy

Total 18 hrs.

***NOTE:** Education majors need to check with their adviser as to whether or not their natural science core requirements will also satisfy the natural science core courses within this minor.

MINOR IN EARTH SCIENCE

Eighteen hours in geology (GEOL) or the combination of courses in geography (GEOG) and geophysics (GEOP) of which six hours must be advanced.

***NOTE:** Education majors need to check with their adviser as to whether or not their natural science core requirements will also satisfy the natural science core courses within this minor.

MINOR IN GEOGRAPHIC INFORMATION SYSTEMS

Choose one two-course sequence from: 8 hrs.*

GEOL	1401	Physical Geology
GEOL	1402	Historical Geology
	or	
PSCI	1421	Physical Sciences I
PSCI	1422	Physical Sciences II
	or	
PHYS	1401	General Physics I
PHYS	1402	General Physics II
	or	
PHYS	2401	Physics for Scientists and Engineers I
PHYS	2402	Physics for Scientists and Engineers II
	or	
ASTR	1401	Introduction to Astronomy I
ASTR	1402	Introduction to Astronomy II
	plus	
GEOL	3308	Introduction to Geographic Information Systems
GEOL	4309	Undergraduate Research in Geoscience
	plus	
GEOL	4408	Applications of Geographic Information Systems
	or	
BIOL	4403	Introduction to Remote Sensing Technology

TOTAL 18 hrs.

***NOTE:** Education majors need to check with their adviser as to whether or not their natural science core requirements will also satisfy the natural science core courses within this minor.

MINOR IN GEOLOGY

Eighteen hours of geology courses, at least 10 of which must be advanced.

Required Courses 6 hrs.

GEOL	1401	Physical Geology
GEOL	1402	Historical Geology

Choose 3 courses from: (at least 10 hours advanced) 12 hrs.

GEOL	3401	Geomorphology
GEOL	3403	Oceanography
GEOL	3404	Sedimentology and Stratigraphy
GEOL	3412	Petrology
GEOL	4301	Exploration Geophysics

GEOL 4302 Environmental Geology

Total 18 hrs.

***NOTE:** Education majors need to check with their adviser as to whether or not their natural science core requirements will also be satisfied using the natural science core courses for this minor.

MINOR IN PHYSICAL SCIENCE

Eighteen hours in the physical sciences of which six hours must be advanced.

Physical Science Core Courses (required) 8 hrs.*

PSCI	1421	Physical Sciences I
PSCI	1422	Physical Sciences II

Electives Courses (Choose one) 3 hrs.

GEOG	2313	Principles of Geography
PSCI	3310	Planet Earth and Its Place in the Solar System
GEOL	3308	Introduction to Geographic Information Systems

Advanced Required Courses 7 hrs.

Choose one from

PSCI	3408	Survey of Physical Science
GEOL	3401	Geomorphology
GEOL	3403	Oceanography

and choose one from

PSCI	4311	Topics in Physical Science
GEOL	4309	Undergraduate Research in Geoscience

Total: 18 hrs.

***NOTE:** Education majors need to check with their adviser as to whether or not their natural science core requirements will also be satisfied using the natural science core courses for this minor.

Course Offering Cycle (Minors: Astronomy, Earth Science, Geographic Information Systems, Geology and Physical Science)

University Curriculum Core Hour Offerings

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 Course Offerings For Minors (for Physics see Minor in Physics)

Fall

ASTR	2101	Astronomy Night Lab
ASTR	2301	Solar System Astronomy
ASTR	3302	Introductory Astrophysics
GEOL	3401	Geomorphology
GEOL	3308	Introduction to Geographic Information Systems

Spring

ASTR	2101	Astronomy Night Lab
ASTR	3301	Stellar and Galactic Astronomy
ASTR	3303	Computer Programming and Astronomy
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

PSCI	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

Teacher Certification in Physical Science 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 7-12) should consult with their adviser 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) 665-3420 or visit [http://](http://www.utpa.edu/colleges/coe/student-services)

www.utpa.edu/colleges/coe/student-services for more information.

The professional education courses for high school (7-12) certification include the following:
UTCH 1101, UTCH 1102, UTCH 3301, UTCH 3302, UTCH 3302, UTCH 3303, UTCH 4701, and READ 4351.

University Core Curriculum Requirements 43 hrs.

Complete the requirements shown in the University core curriculum requirements section on pg. 96 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 I (Only 3 semester credit hours will be applied to the math core requirement.)

Major Course Requirements

Physics Core Courses 30 hrs.

Physics Core Courses (Offered at least once per year.)

PHYS	2411	Physics for Teachers I
PHYS	2412	Physics for Teachers II
PHYS	3101	Junior Physics Laboratory
PHYS	3402	Modern Physics
PHYS	3303	Thermodynamics
PHYS	3404	Optics
PHYS	4401	Physics Education
PHYS	3330	Functions and Modeling
PHYS	4392	Research Methods

Chemistry Core Courses 18 hrs.

CHEM	2302	Organic Chemistry I
CHEM	2102	Organic Chemistry Lab I
CHEM	2303	Organic Chemistry II
CHEM	2103	Organic Chemistry Lab II
CHEM	2301	Analytical Chemistry
CHEM	3303	Biochemistry
CHEM	4401	Chemistry Education

Mathematics Course Requirements: 8 hrs.

MATH	1460	Calculus I (3 hours contacted towards the core)
MATH	1470	Calculus II
MATH	3349	Differential Equations

Required Teacher Preparation Courses

UTCH	1101	Inquiry Approaches to Teaching
UTCH	1102	Inquiry-Based Lesson Design
UTCH	3301	Knowing and Learning in Math and Science

- UTCH 3302** Classroom Interactions
- UTCH 3303** Project-Based Instruction
- UTCH 4701** Apprentice Teaching
- READ 4351** Reading in the Content Area

Course Descriptions

A listing of courses offered by the Department of Physics and Geology may be found in this catalog on pgs.:

- 317 (Astronomy)
- 327 (Geography)
- 327 (Geology)
- 338 (Physical Sciences)
- 335 (Physics)

ASTRONOMY

ASTR 1401 Introductory Astronomy I [3-3]
(Texas Common Course Number is ASTR 1404/PHYS 1411)
fall

This course introduces the student to 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. This course includes three laboratory hours a week to emphasize course concepts. Course fee: \$20 and Technology fee: \$4.

ASTR 1402 Introductory Astronomy II [3-3]
(Texas Common Course Number is ASTR 1403/PHYS 1412)
spring

This course exposes the student to information about the stellar universe. Telescopes and other instruments including the planetarium are used as an integral part of the course. The course includes three laboratory hours a week to emphasize course concepts. Course fee: \$20 and Technology fee: \$4.

Prerequisites: ASTR 1401.

ASTR 2101 Astronomy Night Lab [0-3]
fall, spring

This course is a hands-on night sky telescopes laboratory. Students will work directly with telescopes studying both solar system objects as well as stars, nebulae, clusters, and other astronomical objects. Students observe and analyze astronomical events such as the phases of Venus, retrograde motion of planets, orbits of Jupiter's moons, etc. Students use sky simulation software as part of this course.

Prerequisites: ASTR 1401 and ASTR 1402.

ASTR 2301 Solar System Astronomy [3-0]
(Texas Common Course Number is ASTR 1304)
fall

This is an algebra/geometry/trigonometry/vector-based course in which students study the basic concepts in astronomy and of our solar system. Topics include current understanding of the Universe, general physics applied to astronomy, current understanding of the formation of our solar system, planetary surfaces, interiors, atmospheres and magnetospheres, and moons, asteroids and comets.

Prerequisites: ASTR 1401.

ASTR 3301 Stellar and Galactic Astronomy [3-0]

spring

This is an algebra/geometry/trigonometry/vector-based course in which students study stars and galaxies. Topics include the sun, star types, properties and evolution, our Milky Way Galaxy, galaxy types and general properties, Hubble's Law, the expansion of the universe, and the Big Bang Model.

Prerequisites: ASTR 1402 and ASTR 2301.

ASTR 3302 Introductory Astrophysics [3-0]
fall

This is a calculus-based course that introduces the student to several topics in astrophysics including Orbital Mechanics, Radiative Transfer, Thermodynamic Equilibrium, Radiative Processes in Astrophysics, Stellar Structure, Galactic Dynamics, and Special Relativity.

Prerequisites: ASTR 3301 and Math 1460.

ASTR 3303 Introduction to Numerical Modeling in Astronomy [3-0]

spring

This course introduces the student to numerical modeling in astronomy. Students will be continuously developing simple numerical codes that represent/simulate given astronomical systems/objects.

Prerequisites: ASTR 3301 and MATH 1460.

BIOLOGY

BIOL 1301 General Biology for Premed Majors [3-0]

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. Medical/clinical applications of the general biology concepts will be integrated into the course.

BIOL 1302 General Biology II [3-0]

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. Prerequisite: BIOL 1301

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. Students 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. Prerequisites: 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. Prerequisites: 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. Prerequisites: BIOL 2403. Lab fees charged.	
BIOL 2406 Environmental Biology	[3-3]
(Texas Common Course Number is BIOL 2406)	
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. **Prerequisites:** 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.

Prerequisites: Biology or Environmental Science major of junior standing or above.

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.

Prerequisites: BIOL 2403 or BIOL 3411.

BIOL 3345 Animal Nutrition **[3-0]**

Students will become familiar with the anatomy and digestive processes that take place in digestive tracts of various domesticated animals. They will also learn how to balance a ration that meets protein and energy requirements of livestock. **Prerequisite:** BIOL 1401 and BIOL 1402

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. Also 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, 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. **Prerequisites:** 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 habitats. 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. **Prerequisites:** 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.

Prerequisites: BIOL 3412 or consent of instructor. Lab fees charged.

BIOL 3407 Comparative Embryology [3-3]

as scheduled

Developmental studies from the zygote through embryological stages (chiefly concerned with amphibians, birds and mammals).

Prerequisites: Nine hours of biology or consent of instructor. 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. **Prerequisites:** 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. **Prerequisites:** 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, 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, 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 and CHEM 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. Prerequisites: 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. Prerequisites: 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. Prerequisites: Nine hours of biology. Lab fees charged.	
BIOL 4313 Endocrinology	[3-0]
as scheduled Advanced study of the endocrine system with emphasis on humans. Topics include hormonal control of homeostasis, feeding, stress and reproduction; functions of endocrine organs, cellular mechanisms of hormone action, animal models of endocrinology, endocrine techniques, and endocrine related diseases. Prerequisites: Twelve hours of biology including four hours from BIOL 2402, BIOL 2403 or BIOL 3411 and eight hours of chemistry	
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. Prerequisites: 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 4316 Environmental Toxicology	[3-0]
A survey of interaction of environmental pollutants with living systems.	
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, biofuels 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: Eight hours of introductory biology (and recommended BIOL 3414 or BIOL 4414) or consent 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. Prerequisites: BIOL 3301 or BIOL 3413 or consent of instructor.	
BIOL 4387 Inquiry-Based Science (Honors Plan)	[2-3]
spring Applications of inquiry in science and an interdisciplinary approach to problem-solving. Consent of instructor required. Lab fees charged.	
BIOL 4388 Global Change Ecology	[3-0]
as scheduled This course will cover different aspects of global change,	

emphasizing topics such as habitat alteration, species extinctions, spread of diseases, invasive species, global warming, and the impact of these factors on conservation efforts.

Prerequisites: BIOL 3409 or consent of instructor.

BIOL 4391 Functions and Modeling [2-3]
A course intended for students in the UTeach program for BIS Science (grades 4-8) or BS Life Sciences (grades 8-12). Students will learn methods to integrate mathematics and statistics into biology and life science curricula for middle school and high school classrooms. The use of technology in the classroom will also be examined. The course will emphasize laboratory activities. **Prerequisites:** Grade of C or better in all of the following: BIOL1401, 1402; CHEM1101, 1301; MATH1340 or 1440; UTCH1101, 1102 or consent of instructor. Additional fee will be charged.

BIOL 4392 Research Methods [1-6]
Classroom. A course intended for students in the UTeach program. Students will design research projects, perform independent inquiries, and learn to combine skills from mathematics and science in order to solve research problems. Coursework will include inquiry, writing, and quantitative reasoning. **Prerequisites:** Grade of C or better in the following: BIOL1401, 1402; or CHEM1101, 1102, 1301, 1302; or MATH1340 or 1440; or PHYS 1401, 1402 or PHYS 2401,2402 or PHYS 2411,2412; and UTCH1101, 1102 or consent of instructor. There is a \$20 lab fee for this course.

BIOL 4398 Special Topics I [3-0]
as scheduled
Topics will cover specialized areas of study in the biological sciences that tend to not be part of regular course offerings. Subjects may vary from semester to semester, depending on the faculty member teaching the course. A student may take this course up to two times for credit. **Prerequisites:** Biology major or minor and eight hours of introductory biology, or consent of instructor. Lab fees charged.

BIOL 4399 Special Topics II [3-0]
as scheduled
Topics will cover specialized areas of study in the biological sciences that tend to not be part of regular course offerings. Subjects may vary from semester to semester depending on the faculty member teaching the course. A student may take this course up to two times for credit. **Prerequisites:** Biology major or minor and eight hours of introductory biology, or consent of instructor. 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. **Prerequisites:** Consent of instructor. Lab fees charged.

BIOL 4404 General Virology [3-3]
This is a comprehensive course covers 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. **Prerequisites:** 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. **Prerequisites:** 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, BIOL 1402, BIOL 3401, BIOL 3412 or BIOL 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. **Prerequisites:** 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, seagrasses and coastal plants. Students are expected to furnish their own transportation to field laboratory sessions at South Padre Island. **Prerequisites:** 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. **Prerequisites:** Nine hours of biology or permission of instructor. Lab fees charged.

BIOL 4414 Plant Taxonomy [3-3]

as scheduled

Identification of vascular plants based on historical and modern molecular approaches to plant classification. **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. **Prerequisites:** Consent of instructor. 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, 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, BIOL 1402, CHEM 1301, CHEM 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, CHEM 2102, BIOL 3413, BIOL 3401, 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]

as scheduled

An introduction to the diversity of microbes found in nature. Emphasis is placed on the ecological significance of bacterial communities found in terrestrial, aquatic and extreme 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. **Prerequisites:** Biology 3409 or Ecology. Lab fees charged.

BIOL 4427 Marine Animal Field Studies [1-9]

as scheduled

This field course will offer students comprehensive field based training in the local marine fauna on South Padre Island. Students will conduct field trips to all major habitat types on South Padre Island, identify and classify marine organisms, and learn basic collecting techniques by conducting observational and experimental studies in field settings. Students are expected to stay on the facility during the field course (Student housing will be provided).

Prerequisites: BIOL 1402 and junior standing.

BIOL 4428 Medical Genomics [3-3]

as scheduled

This course will examine the ever-changing field of genomics. Specifically, the roles that genomics and population genetics play in expanding our knowledge of human biology, disease detection and personalized medicine will be studied.

Prerequisites: BIOL 3413, BIOL 3301, or BIOL 4330.

CHEMISTRY

CHEM 1101 General Chemistry Lab I [0-3]

(Texas Common Course Number is CHEM 1111.)

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]

(Texas Common Course Number is CHEM 1112)

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.

Prerequisites: 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. **Prerequisites:** 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.

Prerequisites: 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. **Prerequisites:** CHEM 1307 concurrent or completed.

CHEM 1300 Introductory Chemistry [3-0]

(Texas Common Course Number is CHEM 1305)

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 1311)

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. **Prerequisites:** CHEM 1300 or one year of high school chemistry.

CHEM 1302 General Chemistry II [3-0]

(Texas Common Course Number is CHEM 1302)

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.

Prerequisites: 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.

Prerequisites: 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.

Prerequisites: High school chemistry.

CHEM 2101 Analytical Chemistry Lab [0-3]

(Texas Common Course Number is CHEM 2101)

fall

A laboratory hands-on experience in quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric and electroanalytical methods. **Prerequisites/Co-requisite:** CHEM 2301.

CHEM 2102 Organic Chemistry Lab I [0-3]

(Texas Common Course Number is CHEM 2123)

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. **Prerequisites:** CHEM 2302; can be taken concurrently with CHEM 2302. \$4 laboratory fee.

CHEM 2103 Organic Chemistry Lab II [0-3]

(Texas Common Course Number is CHEM 2125)

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. **Prerequisites:** 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. **Prerequisites:** None.

CHEM 2301 Analytical Chemistry [3-0]

(Texas Common Course Number is CHEM 2301)

fall

An introduction to principles of quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric and electroanalytical methods. **Prerequisites:** CHEM 1302.

CHEM 2302 Organic Chemistry I [3-0]

(Texas Common Course Number is CHEM 2323)

fall, spring, summer

An introduction to the fundamentals of organic chemistry. Study of covalent bonding, molecular structure, acid-base theory, conformational analysis and stereochemistry, and relations between structure and reactivity: functional groups and their interconversions. Mechanistic studies with emphasis on reactive intermediates. **Prerequisites:** CHEM 1302.

CHEM 2303 Organic Chemistry II [3-0]

(Texas Common Course Number is CHEM 2325)

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. **Prerequisites:** 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.

Prerequisites: 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.

Prerequisites: 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. **Prerequisites:** 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. **Prerequisites:** 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 chemistry or biochemistry research experience. The student will work directly with their mentors on a directed individual research project to answer specific research questions and learn more advanced techniques. Please note that this course cannot be counted toward a chemistry minor. **Prerequisites:** 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. This course is writing intensive. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** CHEM 1302.

CHEM 3330 Functions and Modeling [2-3]
This course is intended for the UTeach BS in Chemistry degree with teacher certification. Students will engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in secondary school mathematics and other sciences through activities of data collection; modeling the data with elementary mathematical functions; using tools from calculus to determine the best model for the data; and using concepts from mathematics, physics and chemistry to interpret the results of the model. The major objective of this course is for students to make connections between chemistry and mathematics. **Prerequisite(s):** MATH 1360 and UTCH 1102, both with a grade of C or better.

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. **Prerequisites:** 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. **Prerequisites:** Chemistry major with senior standing or consent of instructor.

CHEM 4104 Instrumental Analysis Lab [0-3]
spring
A hands-on laboratory experience in instrumental analysis. Includes application of modern instrumentation and scientific software in solving analytical problems. **Prerequisites/Co-**

requisites: 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. **Prerequisites:** Students 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 consent of the instructor prior to registration. **Prerequisites:** 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. 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 approval of the instructor prior to registration. **Prerequisites:** CHEM 4201. \$4 laboratory fee.

CHEM 4203 Advanced Biochemistry Lab [0-6]
fall, spring
An inquiry-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 a spectroscopy, electrophoresis, bioassay and biotechnology tools. **Prerequisites:** 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 chemistry or biochemistry research experience. Students will work directly with their mentors on a directed individual research project to answer specific research questions and learn more advanced techniques. Please note that this course cannot be counted toward a chemistry minor. **Prerequisites:** 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. **Prerequisites:** Chemistry, 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. **Prerequisites:** 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 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.

Prerequisites: Chemistry, 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. **Prerequisites:** Chemistry major with junior standing.

CHEM 4392 Research Methods

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, and CHEM 1302.

MATHEMATICS - FOUNDATIONS

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. **Prerequisites:** 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.

ENVIRONMENTAL SCIENCE

ENSC 3300 Environmental Ethics [3-0]

as scheduled

This course considers the moral relationship of humans to the environment through an examination of different ethical frameworks and case studies. Students will examine the role of personal and societal attitudes and values toward the environment as they apply to perceptions of land, water, biodiversity, natural resources, and pollution.

ENSC 3301 Environmental Approaches to Sustainable Development [3-0]

as scheduled

This course considers environmental approaches to issues of preserving renewable and non-renewable resources for future generations. Students will examine the roles of scientists, government, non-government agencies, and local people in sustainable development. Topics covered include land, subsistence and cultural rights, environmental cooperation, relationships between technology, environment and economy, water wildlife, and forestry resources.

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. Lab fees charged.

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. **Prerequisites:** ENSC 3400. Lab Fees charged.

GEOGRAPHY

GEOG 2313 Principles of Physical Geography [3-0]

(Texas Common Course Number is GEOG 1300.)

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

Physical geology introduces the student to the nature, properties, and distribution of crustal materials; surficial processes, internal processes; origin of continents, oceans, and ocean basins; mineral and fuel resources. This course includes a three hour per week laboratory that reinforces through experiments concepts discussed in lecture. Fees: \$20 laboratory and \$4 technology.

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. **Prerequisites:** GEOL 1401.

GEOL 2271 Field Methods [1-3]

Important field skills are introduced and practiced, including: using maps and aerial photos, sample collection and description, basic surveying, use of the Brunton compass and GPS, and describing and interpreting field exposures. Some class activities will be at field locations. Lab fees required.

GEOL 3308 Introduction to Geographic Information Systems [3-3]

as scheduled

A study of the input, management, manipulation and output of georeferenced information using digital computers. Methods of layering geologic, geographic, meteorological, 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. Fees: \$4 technology.

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, 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. **Prerequisites:** GEOL 1401.

GEOL 3401 Geomorphology [3-3]

as scheduled

A course designed for students interested in surface geological processes including the study of landforms of the Earth and processes by which they are formed. This course includes a three hour per week laboratory that reinforces through experiments concepts discussed in lecture. Fees: \$4 laboratory and \$4 technology. **Prerequisites:** GEOL 1401 or advanced standing in any of the related sciences or consent of instructor.

GEOL 3403 Oceanography [3-3]

as scheduled

This course exposes the student to physical oceanography and is designed for geology minors, biology majors and pre-service earth science teachers. The origin, motion and the physical and chemical properties of marine waters are discussed.. This course includes three laboratory hours per week for reinforcing through experiment, the concepts taught in the lecture. The student is expected to attend field-trip(s). Fees: \$4 laboratory and \$4 technology.

GEOL 3404 Sedimentology & Stratigraphy [3-3]

as scheduled

This course is designed to provide the student with knowledge about sediments, sedimentary processes and principles of stratigraphy, including sedimentary structures, depositional environments, and diagenesis. This course includes sedimentary rock identification, description and interpretation as well as provides an introduction to sequence stratigraphy. This course includes a three hour per week laboratory that reinforces through experiments concepts discussed in lecture. Fees: Laboratory \$4, Technology \$4. **Prerequisites:** GEOL 1401 or advanced standing in any of the related sciences or consent of instructor

GEOL 3412 Petrology [3-3]

as scheduled

This course introduces the student to basic properties, modes of origin, and methods of identifying, classifying and describing the rock-forming minerals and the three classes of rocks. This course includes three laboratory hours per week with emphasis on identifying, describing and interpreting samples in hand specimens and outcrops; thin section examination with the polarizing microscope will be introduced and practiced, Field trips required. Fees: Laboratory \$4, Technology \$4. **Prerequisites:** GEOL 1401 and a high school or college chemistry course, or permission of instructor.

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 4385 Special Topics In Geology [3-0]

as scheduled

Selected topics in geology. Topics are varied according to student interest and availability of faculty. Course may be repeated once for different topics for a maximum of six credit hours. **Prerequisite:** Junior or senior standing and permission of instructor.

GEOL 4408 Applications of Geographic Information Systems [3-3]

as scheduled

This course is designed to provide the student with knowledge in new methods of using georeferenced data. Integration of information from multiple sources is used to analyze interdependencies of both human and physical systems in a rapidly changing rural to urban environment. Examples are provided to illustrate uses in evaluating resource capability units, analyzing hazardous radiation areas, mineral exploration, land management, flood prediction and control, earthquake prediction and hurricane preparation. Attention is given to problems with data. **Prerequisites:** GEOL 3308.

GEOL 4471 Field Geology

Basic concepts of field relationships and field techniques are used to develop geologic maps, stratigraphic columns, cross-sections and geologic interpretations in one or several geologic provinces. Course is conducted off-campus in a field camp for five to six weeks. **Prerequisites:** GEOL 2271, GEOL 3401, GEOL 3412, GEOL 3421; or permission. Geophysics

GEOP 4301 Exploration Geophysics I [3-0]

spring, odd year

This course introduces the student to seismic refraction and reflection imaging of the subsurface of the Earth, including methods of data acquisition, processing and interpretation in two and three dimensions. This course is designed for students with basic geology and/or engineering backgrounds. \$4 laboratory fee. Course is cross listed as PHYS 4311 and GEOL 4301. **Prerequisites:** PHYS 1401 or equivalent and GEOL 1401 or equivalent.

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]
(Texas Common Course Number is MATH 1314.)
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]
(Texas Common Course Number is MATH 1324.)
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]
(Texas Common Course Number is MATH 1325.)
as scheduled

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]
(Texas Common Course Number is MATH 1332.)
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: [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]
(Texas Common Course Number is MATH 2412.)
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]

(Texas Common Course Number is MATH 2413.)

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]

(Texas Common Course Number is MATH 2414.)

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]

(Texas Common Course Number is MATH 1342.)

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 and Computer Engineering [3-0]

as scheduled

This course covers the essentials of matrix theory, graph theory, numerical methods and introduction to proofs for majors in Electrical and Computer Engineering. Topics include Gauss-Jordan elimination, matrix algebra, determinants, graphs, trees, root finding algorithms, numerical differentiation, numerical integration, and numerical matrix methods propositional and predicate logic, and formal logic proofs. **Prerequisites:** MATH 1460 and CSCI/CMPE 1370 or higher, each with a grade of C or better.

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]

(Texas Common Course Number is MATH 2415.)

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 Optimization [3-0]
as scheduled

The course covers basic theory of linear programming, an introduction to the simplex method, path-following interior-point methods, and applications of linear programming. Examples will be presented through visualization and computational methods. Programming will be done in MATLAB. Prerequisite: MATH 3345 with grade of "C" or better.

MATH 3366 Discrete Mathematics [3-0]
as scheduled

Topics include recurrence relations, advanced counting techniques, relations, graphs, trees, Boolean algebra, and modeling computation. Prerequisite(s): MATH 3345 with a 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. **Prerequisites:** MATH 1460 or MATH 1342, and CSCI/CMPE 1370 or higher, all with a

grade of C or better.

MATH 4181 Mathematical Problem Solving [0-1]

as scheduled

This course is intended as a chance for mathematics majors to enhance their skills in mathematical problem solving. Students will learn how to use different techniques to tackle different types of problems ranging from the Calculus to advanced level math courses. In addition to learning problem solving techniques, students will be encouraged to discuss the best methods for solving problems efficiently. This course is highly recommended for math majors who are planning to apply for graduate school. Prerequisite: MATH 1460, MATH 1470 and 9 Math Advanced Hours

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 Variables [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 4348 Advanced Linear Algebra [3-0]

as scheduled

This is a proof-based course of linear algebra topics chosen from vector spaces, linear transformations, determinants, matrices, equivalence relations, canonical forms, inner product spaces, linear functionals, and applications. Prerequisite(s): MATH 3328 and MATH 3345, both with a grade of "C" or better.

MATH 4351 Modern Algebra I [3-0]

as scheduled

This course provides an introduction to algebraic structures. Topics are to be taken from groups, rings and fields.

Prerequisites: MATH 3328 and MATH 3345, both with a grade of C or better.

MATH 4352 Modern Algebra 2 [3-0]

as scheduled

This course continues the study of algebraic structures from Math 4351. Topics include groups, rings, and fields, with applications to geometric constructability and solvability by radicals.

Prerequisites: Math 4351 with grade C or better.

MATH 4357 Real Analysis I [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. **Prerequisites:** MATH 1470 and MATH 3328, both with a grade of C or better.

MATH 4358 Real Analysis 2 [3-0]

as scheduled

This course is a continuation of MATH 4357. Topics include Riemann integration of a single variable function; continuity, differentiation and integration of multivariable functions; the mean value theorem; the implicit and inverse function theorems; Green's theorem; and the convergence of sequences and series of functions.

Prerequisites: MATH 4357 with grade 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 4363 Algebraic Geometry [3-0]

as scheduled

This course is a first introduction to the ideas behind Algebraic Geometry: Nullstellensatz, the definition of varieties, and mappings between them. To illustrate key ideas and motivate theorems, this course focuses its attention on concrete examples, often making use of mathematical software for visualization. Additionally, students may learn about computational techniques and how to use them. **Prerequisites:** MATH 3328 with grade of C or better.

MATH 4366 Differential Geometry [3-0]

as scheduled

Starting with multi-variable calculus, this course will develop the theme of invariants attached to the geometry of curves and surfaces. The various notations of curvature of surfaces are related to curvature and torsion of curves. The contrast between local and global phenomena is also emphasized. Topics will include Gauss' "Theorema Egregium" and the Gauss-Bonnet Theorem. Visualization of ideas with mathematical software will be regularly present. **Prerequisites:** MATH 3328, MATH 3345, and MATH 2401, all with grade of C or better.

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 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.

MATH 4391 Mathematics Research [3-0]

as scheduled

This course is designed to give students experience in research not normally covered within standard courses. Research projects will vary according to student interest and faculty availability. Students will complete a major mathematical research project communicating its results both in oral and written forms to the department faculty and students.

Prerequisites: 12 advanced MATH hours with grades of C or better, and consent of instructor.

MATH 4399 Special Topics 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 when topic is different. Previous number: MATH 4364, MATH 4379. Students may use to replace a grade received in MATH 4364 or MATH 4379 if topics are the same, and may receive credit for each of MATH 4364, MATH 4379 and MATH 4399 if topics are different.

Prerequisites: Consent of instructor

MATHEMATICS - OTHER

MATI 0290 Intermediate Algebra [2-0]

as scheduled

A study of the real number system, equations, inequalities and its applications, graphs of equations and inequalities, exponents and polynomials, factoring and its applications, rational expressions and its applications, systems of linear equations and inequalities, roots and radicals, quadratic equations. Enrollment criteria: THEA score between 250-259 or an ACT score of 19 or a SAT score 450-470 or Accuplacer Elementary Algebra Part score 100 or higher.

MATS 3301 Applied Statistics for Communication Disorders [3-0]

as scheduled

Topics to be covered are: descriptive statistics (including data summarization and simple linear regression), basics of probability, inferential statistics (including hypothesis testing, confidence intervals, one-way analysis of variance, introduction to nonparametric statistics), and the basics of experimental design in the context of rehabilitative professions, including speech-language pathology and audiology. Computer laboratory experience will be an important part of this course. Credit cannot be earned for both MATH/STAT 3337 and MATS 3301. **Prerequisites:** Grade of C or better in one of the following: MATH 1340, MATH 1341, MATH/STAT 2330, or MATH 1440.

MMAT 2308 Survey of Calculus Concepts [3-0]

as scheduled

This course is intended for middle school mathematics teacher certification students. Fundamental concepts from calculus including limits, derivatives, and integrals will be thoroughly examined using algebra, calculators, and computer software. Applications of these concepts will also be emphasized. Prerequisite: EMAT 2307 and MATH 1450, both with a grade of "C" or better

MMAT 3309 Foundations of Mathematics III - 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 3310 Measurement and Geometry I [3-0]

as scheduled

This course is intended for middle school mathematics teacher certification students. It extends fundamental geometry and measurement concepts and principles, with use of technology, across an array of topics: length, area, volume, transformations, symmetry, congruency, similarity, coordinate and measurement systems. Emphasis is on developing structured knowledge up to the van Hiele model level of order/informal deduction for geometric thinking. Prerequisite: EMAT 2307 with a grade of "C" or better.

MMAT 3311 Measurement and Geometry II [3-0]

as scheduled

This course is a continuation of MMAT 3310 as an in-depth study of measurement and geometry. This course studies Euclidean and non-Euclidean geometries through axiomatic systems. It characterizes middle school geometry in terms of logical and axiomatic structure emphasizing the development of structured knowledge at the van Hiele model level of deduction. Prerequisite: MMAT 3310 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 Functions and Modeling [3-0]

as scheduled

This course is intended for middle school mathematics teacher

certification students. Students will engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in middle school mathematics through activities of data collection and modeling the data with elementary mathematical functions such as linear, exponential, polynomial, and trigonometric functions. The major objective of this course is for students to make connections between college mathematics and middle school mathematics. A secondary goal is for students to experience the interaction between mathematics and other sciences. **Prerequisites:** EMAT 2307, MATH 1450 and UTCH 1102, all 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.

MMAT 4392 Research Methods [3-0]
This course is intended for middle school mathematics teacher certification students. Students will perform independent inquiries and learn to combine skills from mathematics and science in order to solve research problems. Coursework will include inquiry, writing, and quantitative reasoning. **Prerequisite:** Consent of Instructor.

SMAT 3330 Functions and Modeling [3-0]
as scheduled
This course is intended for secondary mathematics teacher certification students. Students will engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in secondary school mathematics and other sciences through activities of data collection; modeling the data with elementary mathematical functions; using tools from calculus to determine the best model for the data; and using concepts from mathematics, physics and chemistry to interpret the results of the model. The major objective of this course is for students to make connections between college mathematics and secondary

school mathematics. A secondary goal is for students to experience the interaction between mathematics and other sciences. **Prerequisites:** MATH 1460 and UTCH 1102, both with a grade of C or better.

PHYSICS

PHYS 1301 General Physics I for PRIME TIME Students
The course is an algebra-based introduction to the principles of mechanics, fluids, heat, waves and sound for PRIME TIME students fulfilling a natural science requirement. The course highlights physics concepts that are medically related. **Prerequisite:** MATH 1340. **Recommended:** Credit for or concurrent enrollment in MATH 1356. Permission by Instructor is required.

PHYS 1302 General Physics II for PRIME TIME Students
The course is a continuation of PHYS 1301 covering the principles of electricity, magnetism, optics and modern physics. The course emphasizes physics concepts that are medically related. **Prerequisite:** PHYS 1301. Permission by Instructor is required

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 [3-3]
(Texas Common Course Number is PHYS 2425.)
as scheduled
At the calculus-based level, this course introduces the student to the principles of mechanics, fluids, heat, waves and sound for majors in physics and engineering. The course includes three laboratory hours a week for reinforcing, through experiment, the concepts taught in the lecture. **Prerequisite:** MATH 1460
Fees: \$20 laboratory; \$4 technology.

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 2411 Physics for Teachers I [3-3]

as scheduled

This course is primarily designed for students pursuing a degree in teaching physics. It involves a calculus-based study of mechanics, wave motion, sound, and fluids. The course is primarily taught using inquiry-based approach to provide students with solid content preparation. This course includes three laboratory hours a week to develop students' ability to gather, organize, analyze, and interpret experimental data. Laboratory, technology, and course fees charged.

Prerequisite(s): MATH 1460 with concurrent enrollment in MATH 1470.

PHYS 2412 Physics for Teachers II [3-3]

as scheduled

This course is primarily designed for students pursuing a degree in teaching physics. It is a continuation of PHYS 2411 involving a calculus-based study of electricity, magnetism, electromagnetic wave phenomena, and optics. The course is primarily taught using inquiry-based approach to provide students with solid content preparation. This course includes three laboratory hours a week to develop students' ability to gather, organize, analyze, and interpret experimental data. Laboratory, technology, and course fees charged.

Prerequisite(s): PHYS 2411 and MATH 1470

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 3330 Functions and Modeling [3-0]

This course is intended for secondary Physics teacher certification students. Students will engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in secondary school mathematics and other sciences through activities of data collection; modeling the data with elementary mathematical functions; using tools from calculus to determine the best model for the data; and using concepts from mathematics, physics and chemistry to interpret the results of the model. The major objective of this course is for students to have a better understanding of physical phenomena through mathematical modeling. **Prerequisite:** Grade of C or better in the following: MATH 1460 and UTCH 1102.

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.

tPHYS 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.

PHYS 4392 Research Methods [3-0]

A course intended for students in the UTeach program.

Students will design research projects, perform independent inquiries, and learn to combine skills from mathematics and science in order to solve research problems. Course work will include inquiry, writing, and quantitative reasoning. Prerequisite: Grade of C or better in the following: MATH 1460 and UTCH 1102.

PHYS 4401 Physics Education [3-3]

as scheduled

This course is a capstone course primarily designed for students intending to become high school teachers. It provides these pre-service teachers with strong pedagogical content knowledge. Through the use of research-based teaching strategies and assessments, students develop improved understanding of difficult-to-grasp concepts in mechanics, electricity, magnetism, heat, thermodynamics, optics, and modern physics. Students will develop teaching/learning

materials appropriate for high school students. The course is taught in an integrated lecture and laboratory format.

Laboratory, technology, and course fees charged.

Prerequisite(s): PHYS 2411, PHYS 2412, PHYS 3303, PHYS 3402, PHYS 3404

PHYSICAL SCIENCE

PSCI 1421 Physical Science I [3-3]

(Texas Common Course Number is PHYS 1415)

fall, spring, summer

This course is designed to introduce the student to the concepts and principles of physical science for non-science and elementary school teacher majors. The topics include: mechanics, energy, astronomy, and meteorology. This course includes three laboratory hours per week for reinforcing, through experiment, the concepts taught in the lecture. Fees: \$20 laboratory; \$4 technology. **Prerequisites:** None.

PSCI 1422 Physical Science II [3-3]

(Texas Common Course Number is PHYS 1417)

fall, spring, summer

This course is a continuation of PSCI 1421 and is designed to introduce the student to the concepts and principles of physical science for non-science and elementary school teacher majors. The topics include: waves, the nature of matter, chemistry, and earth science. this course includes three laboratory hours per week for reinforcing, through experiment, the concepts taught in lecture. Prerequisite: PSCI 1421.

PSCI 3310 Planet Earth and its Place In the Solar System [3-0]

as scheduled

Through this course the student is exposed to information about the formation and interaction of the solar system and the Earth. The evolution of the Earth's atmosphere and surface are discussed as well as the impact that these have had on the origin of life. Fees: \$4 technology. **Prerequisites:** PSCI 1421, PSCI 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.

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 1287 Interdisciplinary Science Lab 0-6]

Basic laboratory techniques in general chemistry, physics, and biology for premed majors. Clinical applications, cases and explorations will augment experiments and concepts covered. stoichiometry and titrations. **Prerequisites:** Concurrent enrollment in BIOL 1301, PHYS 1301, and CHEM 1301.

SCIE 1288 Interdisciplinary Science Lab [0-6]

Basic laboratory techniques for general chemistry II, general physics II, and general biology II for premed majors. Clinical applications, cases and explorations will augment experiments and concepts covered. **Prerequisite:** SCIE 1287, CHEM 1301, BIOL 1301, and PHYS 1301

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 be exposed to the topic of continental drift and 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.

SECONDARY MATHEMATICS

SMAT 4311 Advanced Study of Secondary Geometry [3-0]

as scheduled

This course is intended for secondary mathematics teacher certification students. It examines connections of high school mathematics content and processes to logical and axiomatic structures in modern geometry at the van Hiele model levels of deduction and rigor. Prerequisite: MATH 4304 with a grade of C or better.

SMAT 4312 Advanced Study of Secondary Algebra [3-0]

as scheduled

This course is intended for secondary mathematics teacher certification students. It examines connections of high school mathematics content and processes to numerical and algebraic structures in modern algebra and Usiskin's characterization of algebra. Prerequisite: MATH 4351 with a grade of C or better.

SMAT 4392 Research Methods [3-0]

as scheduled

This course is intended for secondary mathematics teacher certification students. Students will perform independent inquiries and learn to combine skills from mathematics and science in order to solve research problems. Coursework will include inquiry, writing and quantitative reasoning. Cross-listed course: MMAT 4392. Prerequisite: 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.

COLLEGE OF SOCIAL AND BEHAVIORAL SCIENCES

Dr. Walter Díaz,
Dean

Social and Behavioral Sciences Building, Room 234
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http://portal.utpa.edu/utpa_main/daa_home/cosbs_home

Dr. Jessica Lavariega Monforti,
Assistant Dean

Dr. Gary Montgomery,
Assistant Dean

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General Overview

The College of Social and Behavioral Sciences is composed of six departments: Criminal Justice, Military Science, Political Science, Psychology, Public Affairs & Security Studies, Sociology and Anthropology, an independent Program in General Studies, and a minor in Environmental Studies.

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 pg. 96 of this catalog.

Academic Programs

The college offers a Bachelor of Arts in anthropology, political science, psychology and sociology, a Bachelor of Science in psychology and criminal justice, and a Bachelor of General Studies. Students may minor in anthropology, criminal justice, folklore, environmental studies, global security studies, legal

studies, military science, political science, psychology, public administration or sociology. Students also can satisfy the University core curriculum requirement for social science courses (see pg. 97) by taking classes within the college.

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 wide-ranging liberal arts education, offering instruction that provides opportunities for excellent post-graduate studies, a basis for life-long learning, and enhancement of future careers.

Additionally, the Department of Military Science provides ROTC training that can lead to commissioning in the Army, Army Reserve or National Guard.

CRIMINAL JUSTICE

Dr. S. George Vincentnathan,
Department Chair

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Full-Time Faculty

Appiahene-Gyamfi, Joseph, Associate Professor
Bowe, George, Lecturer
Dantzker, Mark, Professor
Dearth, Daniel K., Associate Professor
Ethridge, Philip, Associate Professor
Gonzales, Stanley, Lecturer
Lynch, Robert, Lecturer
Muñoz, Fernando, Lecturer
Resendiz, Rosalva, Associate Professor
Vincentnathan, Lynn, Associate Professor
Vincentnathan, S. George, Professor
White, Thomas, Associate Professor

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:

Develop the knowledge of criminal justice theories and practices and professional abilities to address criminal justice issues for crime control.

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.

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 hrs.
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Complete the core curriculum requirements as shown on pg. 97 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 hrs.
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Criminal Justice Core	27 hrs.
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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

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 hrs.
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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 hrs.
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Criminal Justice Requirement in Sociology:

SOCI	4333	Social Theory
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 hrs.
Criminal Justice	48 hrs.
Sociology (4333 or 4352)	3 hrs.
Minor	18 hrs.
Free Electives	8 hrs.

Total	120 hrs.
(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 hrs.
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CRIJ	1301	Introduction to Criminal Justice
CRIJ	2328	Police Systems and Practices
CRIJ	2313	Correctional Systems and Practices

Criminal Justice Electives	9 hrs.
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 pg. 357.

ENVIRONMENTAL STUDIES

Dr. Lynn Vincentnathan,
Chair, Environmental Studies Minor Committee

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MINOR IN ENVIRONMENTAL STUDIES (ENST)

The Environmental Studies Minor promotes environmental literacy and sustainability and raises awareness of the effects of daily decisions on how we interact with animals and plants and how we use natural resources such as water, air, and soil. It takes a holistic ecological perspective, recognizing that humans are one part of interconnected systems. It is broadly interdisciplinary, encompassing courses from the humanities, social sciences, health and human services, sciences, business, engineering, and public policy. Students can examine relationships between global ecology and Rio Grande Delta ecological systems and draw connections with social inequalities, industrial and technological footprints on the planet, and environmental justice issues. The Environmental Studies Minor enables students to communicate across disciplines, identify environmental problems, and promote sustainable solutions. Nearly every career path and profession can benefit from the environmental literacy this minor offers.

Requirements

The ENST Minor consists of at least 6 courses (at least 3 at 3000-level or above), for at least 18 semester hours: One or two Environmental Science courses; and four to five Environmental Studies courses. For information about courses that meet ENST requirements, visit www.utpa.edu/env_studies.

Advising

Students electing the Environmental Studies minor must receive advising by the minor advisor. The minor advisor must approve all minor coursework. For more information on the minor, visit www.utpa.edu/env_studies.

GENERAL STUDIES

Dr. Shelia Pozorski
Coordinator

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Program Description

The general studies bachelors 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 hrs.
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Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

Required Courses:	54 hrs.
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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 hrs.
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Including a minimum of 15 advanced hours.

Other Requirements

A minimum of 51 hours of advanced coursework.

TOTAL	120 hrs.
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MILITARY SCIENCE

Lt. Col. Alfred Silva,
Department Chair

Lamar Building B, Room 104
1201 W. University Drive
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Telephone: (956) 665-3600
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Full-Time Faculty

Silva, Alfred, Lieutenant Colonel, Professor
Hutchinson, Brian, Captain, Assistant Professor
Gonzalez, Abel, CPT Assistant Professor
Petit, Kevin, 1st Lieutenant, Recruiting Operations Officer
Santos, James, Master Sergeant, Senior Instructor
Miles, Michael G., Master Sergeant (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. Army ROTC will give you valuable real-world tools and leadership skills that will benefit not only your professional career but your personal life as well. Army ROTC is an elective curriculum you take along with your required college classes. It prepares you with tools, training and experiences that will help you succeed in any competitive environment. Along with great leadership training, you will have a normal college student experience like everyone else on campus, but when you graduate, you will be an officer in the Army. 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 UT 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. The Simultaneous Membership Program allows you to attend Army ROTC and serve in the U.S. Army Reserve or Army National Guard at the same time. It gives you an opportunity for additional training and experience. Cadets serve as officer trainees in the Reserve or National Guard while completing college. You can earn Reserve/Guard pay and benefits in addition to your Army ROTC allowances. 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, JROTC Ranger Challenge Competition, and The Alamo Staff Ride. 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, Study Abroad Internships, or Cadet Troop Leadership Training. Selection is based on 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.

There is 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

- 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.
- Maintain full-time student status.
- Pass a military physical examination.
- Pass the ROTC Physical Aptitude Examination.
- Maintain an overall GPA of 2.0.
- Sign an Advanced ROTC and Commissioning Agreement.
- Successfully complete four semesters of advanced ROTC courses.
- Successfully complete ROTC Leadership Camp.
- Successfully complete an undergraduate degree program.
- 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 pg. 369.

POLITICAL SCIENCE

Dr. James Wenzel

Department Chair

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Full-Time Faculty

Alianak, Sonia, Associate Professor
Chen, Xi, Assistant Professor
Díaz, Walter, Professor
Ford, Kay, Lecturer
Freeman, Samuel, Associate Professor
Gleason, James, Lecturer
Gonzalez, Julie, Lecturer
Jackson, Edward, Lecturer
Jorgensen, Paul, Assistant Professor
Lavariega Monforti, Jessica L., Associate Professor
Morgan, Glynn, Associate Professor
Mounce, Gary, Associate Professor
Polinard, J.L., Professor
Béjar, Sergio, Assistant Professor
Saavedra Cisneros, Angel, Assistant Professor
Sandoval, Cecilia, Lecturer
Singh, Ila, Lecturer
Sokoloff, William, Assistant 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) 665-3342 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 hrs.

University Core Curriculum Requirements 43 hrs.

Complete the university core curriculum requirements as shown on page 97 of this catalog, including POLS 2313 and POLS 2314 or POLS 2387 and POLS 2388.

MATH 1340 is required by political science to fulfill the math core requirement.

Departmental Requirements 9 hrs.

Three hours of Introductory Statistics (POLS 2331 or 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 hrs.

- 6 hrs. in American Government and Politics
- 3 hrs. in Comparative Government
- 3 hrs. in International Relations
- 3 hrs. in Methods of Political Science Research

- (POLS 3331)
 - 3 hrs. in Political Theory
 - 3 hrs. in Public Administration
 - 6 hrs. of advanced Political Science electives
- | | |
|-------------------------------|---------|
| Hours for Minor and Electives | 41 hrs. |
|-------------------------------|---------|
- 18 hrs. in approved minor
 - 12 hrs. of 3000-4000 level electives
 - 11 hrs. of 1000-4000 level electives

A total of 54 advance hours is required.

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 pg. 360.

PSYCHOLOGY

Dr. Valerie James-Aldridge
Department Chair

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Full-Time Faculty

Aldridge, James W. Jr., Professor
Alfaro, Edna, Assistant Professor

Benham, Grant, Associate Professor
Croyle, Kristin, Associate Professor
Eisenman, Russell, Associate Professor
Eluri, Zina A., Assistant Professor
Ernst, Frederick, Professor
Flynn, Maureen K., Assistant Professor
Gasquoine, Philip, Professor
Gonzalez, Genaro, Professor
Hirai, Michiyo, Assistant Professor
James-Aldridge, Valerie G., Associate Professor
Jou, Jerwen, Professor
Leka, Gary, Lecturer
Mercado, Alfonso, Assistant Professor
Montgomery, Gary T., Professor
Neely, Valerie, Lecturer
Popan, Jason, Assistant Professor
Rogers, Darrin, Associate Professor
Weimer, Amy, Associate Professor
Winkel, Mark H., Associate 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 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.

The Department of Psychology strives to fulfill its

responsibilities by providing quality undergraduate academic programs in 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 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 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:

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.

The ability to use words accurately and effectively, and to communicate clearly in oral and written formats.
The ability to analyze complex problems and to synthesize facts and ideas.

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 political and social systems in the United States and other nations, and their interrelationships.

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 is also committed to sponsoring service activities that meet the intellectual and cultural interests of the University and the community the University serves.

Degree Requirements

MAJOR IN PSYCHOLOGY (BA DEGREE)

University Core Curriculum Requirements 43 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

A social science outside of psychology is required to fill the core social science requirement.

Core Courses 16 hrs.

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 hrs.

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 pg. 97. 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 hrs.

Complete the University core curriculum requirements as shown on pg. 97 of this catalog.

A social science outside of psychology is required to fill the core social science requirement.

Core Courses 16 hrs.

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 hrs.

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 pg. 97. 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 pg. 365.

PUBLIC ADMINISTRATION

Dr. William L. Turk

Department Chair

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Full-Time Faculty

Espiridion (Al) Borrego, Associate Professor
Cynthia Lynch, Associate Professor
John Milford, Lecturer
Aziza Zemrani, Assistant Professor

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	4324	Bureaucracy and Organizational Theory
PUBA	4325	Public Personnel Administration
PUBA	4309	Public Fiscal Administration
POLS	3314	American State and Local Government
PUBA	4378	Management of Nonprofit Organizations
POLS	3316	American Public Policy
PUBA	4362	Independent Study

SOCIOLOGY AND ANTHROPOLOGY

Dr. Miguel Díaz-Barriga

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SOCIOLOGY

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Full-time Faculty

Donner, William, Associate Professor

Foy, Steven, Assistant Professor

Guerra, Ramon S., Associate Professor

Merino, Stephen, Assistant Professor

Raajpoot, Uzzer A., Associate Professor

Restifo, Salvatore, Assistant Professor

Rodríguez, Havidán, Professor

Ryabov, Igor, Assistant Professor

Sechrist, Jori, Assistant Professor

Wang, Guang-zhen, Professor

General Overview

The Department of Sociology and Anthropology 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.

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Degree Requirements

MAJOR IN SOCIOLOGY

University Core Curriculum Requirements	43 hrs.
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Complete the University core curriculum requirements as shown on pg. 97 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 hrs.
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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	12 hrs.
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SOCI	1313	Principles of Sociology
SOCI	2301	Statistics for the Behavioral Sciences
SOCI	3301	Quantitative Social Research
SOCI	4333	Social Theory

Designated Electives	21 hrs.
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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 pg. 97. 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. For students taking 3000 or 4000 level courses Sociology 1313 is recommended as a prerequisite.

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

ANTHROPOLOGY

Dr. Thomas Pozorski

Anthropology Coordinator

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Full-Time Faculty

Diaz-Barriga, Miguel, Professor

Dorsey, Margaret, Assistant Professor

Graham, Margaret, Associate Professor

Hinojosa, Servando, Associate Professor

Lovett, Bobbie, Lecturer

Pozorski, Shelia, Professor

Pozorski, Thomas, Professor

Skowronek, Russell, Professor

Vincentnathan, Lynn, Associate 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: 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.

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.

Anthropological thinking nurtures the ability to analyze complex problems and to synthesize facts and ideas. 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 organization; and sensitivity to the need for informed, independent, moral and ethical decisions. 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.

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 hrs.

Complete the University core curriculum requirements as shown on pg. 97 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 hrs.

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 hrs.

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 hrs.

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 pg. 97. 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 hrs.

ANTH 1353	Introduction to Folklore
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15 hours from: 15 hrs.

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 the Department of Sociology and Anthropology can be found on pg. 370.

ANTHROPOLOGY

ANTH 1323 Introduction to Cultural Anthropology [3-0]

(Texas Common Course Number is ANTH 2346)
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]

(Texas Common Course Number is ANTH 2302)
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]

(Texas Common Course Number is ANTH 2351)
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 3304 Indians North America [3-0]

as scheduled
To explore the diverse nature of Native American cultures at the time of European contact. In this class, students will see how ethnographers, ethnohistorians, and historians have recorded the lifeways of contemporary aboriginal societies and have reconstructed their prehistoric past. Consideration will be given to the impact of European contact and how that has altered "Western" images of the North American Indian. Women and men will be equally considered in order to give a balanced view of the richness of these cultures.
Equivalent course: History 3304. A student may receive credit in only one course.
Prerequisites: Three hours from any of these areas: anthropology, economics, psychology or sociology or consent of instructor.

ANTH 3305 Great Discoveries in Archaeology [3-0]

as scheduled
This course examines many of the most famous archaeological discoveries of the past century that have shed light on humans and their culture, human origins, world history and the development of human behavior. Popular assumptions about these finds will be evaluated in light of current anthropological theories and within the historical, context of the era in which they were found in order to discern a more accurate knowledge of the past.
Equivalent course: History 3305. A student may receive credit in only one course.
Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor

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.
Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, 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 at the 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, sociology, or consent of instructor.

ANTH 3343 Museum Studies [0-0-3]

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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 3344 Archive Studies [0-0-3]

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 hours. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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.

Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4300 Discovering the Rio Grande Valley [3-0]

This course will be taught by a team of faculty in Anthropology, History, Geology, and Biology who will cover in-depth content of the Rio Grande Valley from various disciplinary points of view. This class is part of the CHAPS (Community Historic Archeology Project with the Schools) program that focuses on primary field research. Students will examine land titles/abstracts, study the geology of the region, conduct oral histories, and research the flora and fauna of this area. The course can be repeated once for credit.

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. Must be taken concurrently with ANTH 4395 Fieldwork in Anthropology. 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 1313 and PSY 3383 or ANTH 1324, or consent of instructor.

ANTH 4306 Anthropology of Borders [3-0]

as scheduled

Anthropology of Borders takes border zones and issues crucial to understanding them both as its field site and point of comparative analysis. From Spanish-French Catalonia to the borderlands of Indonesia, this course investigates issues commonplace to zones of contact such as linguistic variation and innovation as well as the role of the state in construction and codifying notions of citizenship. By looking at borders

from a comparative ethnographic perspective, the course seeks to contextualize issues faced by borderlanders of South Texas within a global framework. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4307 Shipwrecks, Pirates and the Sea: An Introduction to Maritime Archaeology and History [3-0]

as scheduled

Maritime archaeology is a profession combining traditional fields and extensive practical experience. Anthropology, history, archaeology, geography, and related sciences provide the theoretical and practical methodology with which maritime sites are found, tested and interpreted. This course is designed to provide students with the field's background, range and relevant examples involving both history and archaeology. Equivalent course: HIST 4307. A student may receive credit in only one course. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4308 Conquistadors and Indian Chiefs of the Borderlands: A Comparative Colonialism of Northern New Spain [3-0]

as scheduled

This course covers Spanish and Native American interactions in what is today the Southeastern United States, Texas and California. Emphasis will be placed on how the social and natural environment was changed in these areas. Examination of these changes will be done through the documentary and archaeological records. Equivalent course: HIST 4308. A student may receive credit in only one course. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4309 Anthropology of Women [3-0]

as scheduled

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:** Three hours from any of these areas: anthropology, economics, psychology, sociology or consent of instructor.

ANTH 4310 Food and Culture [3-0]

as scheduled

This course examines the interaction between human culture and food from an anthropological perspective. It examines the social roles of food and how economic forces are transforming food systems in the world today.

Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4311 Medical Anthropology [3-0]

as scheduled

This course introduces students to the diverse field of medical anthropology. It examines the human experiences of health and disease in cross-cultural, historical, and evolutionary perspectives.

Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4312 Political and Legal Anthropology [3-0]

as scheduled

This course involves the anthropological analysis of political and legal institutions as revealed in relevant theoretical debates and with reference to ethnographic examples. Topics included in this course are the development of political and legal anthropology and their key concepts; studies of the state, kingship and other forms of authority; forms of knowledge and power; political competition and conflict; indigenous responses to colonialism; civil society and citizenship; nationalism, ethnicity, and genocide; theories of order and normative domain; law as command and law as rules; the legal dimensions of hierarchy and authority; dispute institutions and processes, legal pluralism; Indian, Islamic and other non-Western legal systems.

Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4313 Anthropology of Popular Music [3-0]

as scheduled

This course examines the roots and development of American popular music over the last 200 years. Included in class presentations are discussions and demonstrations of minstrel shows, jazz, ragtime, blues, big band swing, rock and roll and other forms of contemporary music. The impact of African, Latin American, and other musical styles on popular music, and music's reflection of contemporaneous culture will be discussed and demonstrated.

Prerequisites: Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4314 Environmental Anthropology [3-0]

as scheduled

Introduction to human/environmental interactions from various anthropological perspectives. History of anthropological approaches to the environment, emphasizing the mutual interconnectedness of people and nature. Survey of evolutionary models, cultural ecology, systems approaches, indigenous knowledge, ethnoecology, nature and the state, political ecology, ecofeminism environmentalism, and environmental justice. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4315 Field Experience in the Border [3-0]

This course provides students an opportunity to design and conduct an independent research project in the Rio Grande Valley. Instruction focuses on field methods, ethics and technology. Students learn to use the latest software and digital audio and video recording technology. Ultimately, students will deposit their primary source material in the Border Studies Archive. **Prerequisite(s):** three hours from any of these areas; anthropology, economics, psychology or sociology or consent of instructor

ANTH 4345 Anthropological Theory & Methodology [3-0]

fall, spring
Instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology. **Prerequisites:** 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 ethnohistory of indigenous cultures of the region. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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:** Three hours from any of these areas: anthropology, economics, psychology, sociology 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, or consent of instructor.

ANTH 4369 Archaeology of Mexico & 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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. **Prerequisites:** Three hours from any of these areas: anthropology, economics, psychology, sociology, 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 4390 Directed Studies [3-0]

as scheduled
A study of selected topics in anthropology. Topics are varied according to availability of faculty and student interest. Course can be repeated for credit as topics change. **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 learn about the specific topic under investigation as they gain 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 or consent of instructor.

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 & 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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 & 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 & 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 & 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. **Prerequisites:** 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. **Prerequisites:** 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. **Prerequisites:** 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.

ENVIRONMENTAL STUDIES

ENST 4380 Environmental Studies Directed Research [0-3]
Designed to give students experience in research or in-depth theoretical/empirical readings in a substantive area in Environmental Studies not normally covered within standard courses. Research projects or advanced readings will vary according to student interest and faculty availability.

ENST 4390 Environmental Studies Internship [0-3]
Extensive practical application of Environmental Studies knowledge and skills in the larger community. Each student will work closely with one or more professionals working on a project or in a topical area involving one or more environmental or sustainability issues. This will enable students to learn in-depth about specific issue(s) and gain research experience and/or professional skills.

GLOBAL SECURITY STUDIES

GSST 3300 Global Security [3-0]
as scheduled
As a comprehensive introduction of the politics of global security, this course explores the evolution of security concepts worldwide, addresses a wide range of major international Issues with global implications, as well as identifies and debates about possible measures to address and prevent these problems.

GSST 3320 Interdisciplinary Research & Analysis [3-0]

as scheduled

This course provides basic knowledge and skills needed to undertake research-based problem solving. It is an introduction to empirical research and analysis as used in behavioral, intelligence, and security settings. How to pose research questions, apply theoretical framework, identify and use valid and reliable measures, and gather data, emphasizing the preliminary process of research design will be covered. Students will become critical consumers of research products as they are exposed to the basic skills of evaluating and applying research results. Students will also consider ethical dilemmas and conflicts of interest in research.

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. **Prerequisites:** 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. **Prerequisites:** Consent of instructor.

GSST 3399 Special Topics [3-0]

Intensive study of a specialized area of global security or a selected topic in contemporary security studies. May be repeated for credit when topic varies.

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. **Prerequisites:** GSST 3310 or GSST 3320.

Interdisciplinary Studies

INTS 4300 Discovering the Rio Grande Valley: [3-0]

The Natural and Cultural History Of South Texas as scheduled

This course will be taught by a team of faculty in Anthropology, History, Geology, and Biology who will cover in-depth content of the Rio Grande Valley from various disciplinary points of view. This class is part of the CHAPS (Community Historic Archeology Project with the Schools) program that focuses on primary field research. Students will examine land titles/abstracts, study the geology of the region, conduct oral histories, and research the flora and fauna of this area. The course can be repeated once for credit.

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 & 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 & 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 2335 Introduction to Political Theory [3-0]

This course examines some of the core concepts in the field of political science including democracy, power, justice, freedom, order, ideology, equality, the state, violence, gender, race and others. Thinkers may include Plato, Aristotle, Machiavelli, Hobbes, Rousseau, Wollstonecraft, Tocqueville, Marx, Weber, Arendt, Rawls, Du Bois, and others. **Prerequisite:** POLS 2313, 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 [1-0]

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. Equivalent Course: FILM 3301; may be counted as Political Science or Film Studies course in satisfying degree requirements. Credit may be received for only one course.

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 U.S. 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 U.S.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 U.S. 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 Problems in American Politics [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 3319 Environmental Policy [3-0]

as scheduled

An examination of the public debate over environmental issues will be coupled with an exploration of the development and formation of environmental policy. Additionally, specific environmental policies will be examined to include the politics and processes of regulatory decision making and their consequences for the environment.

Prerequisites: POLS 2313, 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 3364 U.S.-Mexico Border Relations [3-0]

as scheduled

The politics of the U.S.-Mexican border are examined, with foci on border relationships between the U.S. and Mexico, and the political economy and administration of the borderlands.

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 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 Gender Theory and 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 Race and Gender: Politics of Intersectionality [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 Politics of Culture [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 Making Process [0-0-3]
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 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 insider's 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 Congress and the White House [0-0-3]
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 student's 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 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 4313 Politics of Western Europe [3-0]
as scheduled
A study of the major democracies of Europe, 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 U.S. 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 U.S. Constitutional Law: Civil 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 U.S. 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 U.S. 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 U.S. 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 U.S. 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 4367 U.S. 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 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 & 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 U.S. 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 & 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.

PSYCHOLOGY

PSY 1310 Introduction to Psychology [3-0]
(Texas Common Course Number is PSYC 2301.)

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 1340or 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 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.

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 4182 Directed Readings [1-0]

as scheduled

Students will complete individually assigned readings on a selected topic under the supervision of a faculty member with whom specific arrangements have been made. May be repeated for up to two hours credit.

Prerequisite(s): Nine hours of psychology and consent of instructor

PSY 4302 Primate Behavior [3-0]
as scheduled

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 data on a representative primate group at the Gladys Porter Zoo in Brownsville. Equivalent Course: ANTH 4302; a student may receive credit for either PSY 4302 or ANTH 4302.

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 4327 Personal Relationships [3-0]
fall, spring, summer I

Theories and research findings on a variety of close relationships are explored, including friendships and romantic love. Although the course focuses on everyday dynamics, clinical issues such as shyness, loneliness and jealousy are also covered. In addition to analyzing how personal relationships are developed and maintained, the course also examines the process of breakup and dissolution.

Prerequisite(s): Nine hours of psychology

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]

Human factors is concerned with the 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 4381 Psychology Internship [3-0]

as scheduled

An extensive application of psychological concepts and skills within a community organization, government agency, mental health setting or business enterprise related to the student's career goals. Specific assignments will vary by instructor and internship site. **Prerequisites:** Nine hours of psychology and consent of instructor.

PSY 4382 Directed Readings [3-0]

as scheduled

Students will complete individually assigned readings on a selected topic under the supervision of a faculty member with whom specific arrangements have been made. **Prerequisites:** Nine hours of psychology 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 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 4324 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 4325 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 4362 Independent Study [3-0]

as scheduled

Requires the approval of the supervising faculty member. Allows student to work independently on a specialized area. The student will submit a written plan, with outcomes and 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 Nonprofit 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 the foundations of administration and management.
Prerequisites: None.

ROTC (MILITARY SCIENCE)

ROTC 1201 CPR/First Aid & 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 & 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 & 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 [0-0-.2]

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.

ROTC 3202 Advanced Army Physical Development [0-0.2]

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.

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 [2-4]

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 & 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. Pre-commissioning 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.

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 (Honors Plan) [3-0]

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 Research Methods [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

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. **Prerequisites:** SOCI 1313 OR

SOCI 1387 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

Social psychology is a discipline that bridges sociology and psychology. It is the scientific study of how people think about, influence, and relate to one another. This course covers such topics as socialization, self-presentation, attitudes,

communication, social influence, interpersonal attraction and relationships, behavior in small groups, intergroup relations, and personality and social structure. **Prerequisite:** SOCI 1313

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.) **Prerequisite:** Six hours of sociology or consent of instructor.

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 socioeconomic conditions and their historical antecedents.

SOCI 4324 Contemporary Research in Social Psychology [3-0]

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 text, code, production, reception and culture in action, which have made cultural sociology flourish in the past 10 years 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 Social Theory [3-0]

as scheduled

The nature and function of social theory and its development, especially from the Enlightenment to contemporary times. 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 social thought. Essential aspects of the logic of scientific inquiry focusing on contemporary theories as model building in sociology. **Prerequisite:** SOCI 1313 or 1387.

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 & 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.

GENDER & WOMEN STUDIES

WMST 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.

WMST 3344 Gender, Crime & 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 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 & 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 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 vis-à-vis 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. **Prerequisites:** 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. **Prerequisites:** 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:

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

Accreditation — High School

A high school in Texas is considered accredited if it is recognized by the Texas Education Agency (TEA). High schools outside of Texas are considered accredited if they are recognized by their state accreditation agency.

Advanced-level Work

Courses numbered 3000-4000 are advanced or upper- division courses. Courses numbered 3000 are designated as junior level, and 4000-numbered courses are designated as senior level. Approval of the department chair or dean of the college

is required for enrollment in advanced-level courses by students who have not reached junior standing. Students who have not passed all portions of the TASP exam may not enroll in any advanced-level coursework if, upon completion of the work, the student would have completed 60 or more hours.

Attempted Hours

Attempted hours are the total number of hours for courses that a student has attempted, including failing grades such as F, DF and WF. Repeated courses, failing grades over seven years old, incomplete grades and credit (CR) grades are not included in attempted hours at the undergraduate level.

Census Date

The official census date for The University of Texas-Pan American is the 12th class day for regular Fall and Spring semesters or the fourth class day for Summer sessions. Dates for traditional programs are found in the Academic Calendar. Census dates for non-traditional students (online-accelerated programs) will be published by the registrar's office.

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.

Contact Hours

Number of regularly scheduled hours per week that a lecture, laboratory or clinical experience is scheduled to meet during a long semester. (See [3-0] above.)

Coursework in Residence

Coursework in residence refers to coursework actually completed on the UT Pan American campus. Extension, credit by examination, and transfer credit may not be used to complete the residency requirement for graduation.

Dean's List

After each regular semester, a dean's list is published listing the names of all undergraduate students enrolled in a minimum of 12 college-level hours who have a grade point average of 3.5 or better for courses taken that semester. A dean's list is not produced during the summer sessions.

Designated Electives

Students have choices within the category of designated electives but must complete the required number of courses or hours from those specified.

Elective Hours

Required semester hours for which specific courses are not prescribed are listed as elective hours.

Entering Freshman

A student admitted as an entering freshman has not attended any accredited college or university.

Full-time Graduate

A graduate student who is enrolled for at least nine hours of credit during a regular semester, or a total of six hours of credit during the summer sessions, is considered fulltime.

Full-time Undergraduate

An undergraduate student who is enrolled for at least 12 semester hours during a regular semester, or at least 6 hours of credit during a summer session, is considered full time.

Half-time Graduate

A half-time graduate student is one who is enrolled for 6 to eight hours of credit during the regular semester or 3 hours of graduate credit during a Summer session.

Half-time Undergraduate

A half-time undergraduate student is one who is enrolled for 6 to 11 semester hours during the regular semester or 3 hours of credit during a summer session.

Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for 9 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 3 hours of credit. Two or 3 laboratory hours per week are usually required for one hour of laboratory credit.

International English Language Testing System (IELTS)

Students whose native language is not English and students who studied outside the U.S. will be expected to provide test scores for either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

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 course load for a full-time undergraduate student is 18 hours in a regular semester and 6 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.

Non-degree Seeking Students

Non-degree seeking students are students who take graduate coursework for professional improvement or other reasons and have not been admitted to a graduate program. If the non-degree seeking student decides to apply to a graduate program, the student must submit a graduate application online, pay the required fees, and submit an official transcript showing the awarding of a bachelor’s or higher degree. Registration as a non-degree seeking student in a master’s course requires the permission of the graduate program director or the department chair. Registration in doctoral courses requires acceptance to a doctoral program and/or approval of the vice provost for graduate studies and may require additional documentation. A maximum of 6 hours taken at the university as a non-degree seeking student can be applied to a graduate degree with the approval of the graduate department.

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 sections on scholastic probation and suspension in the undergraduate and graduate catalogs. The Student Conduct and Disciplinary Code is discussed on [p. 62](#).

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.

Summer Session

As part of its regular program, the University offers two Summer Sessions, each five-and-one-half weeks long.

Transfer Students

Students admitted as transfer students have last attended an accredited college or university other than, or in addition to, UT Pan American.

Test of English as a Foreign Language (TOEFL)

Students whose native language is not English and students who studied outside the U.S. will be expected to provide test scores for either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

Upper Division (see Advanced-level Work)

FACULTY LISTING

Abebe, Michael Alemayehu, Assistant Professor, Department of Management; Management, Ph.D., Southern Illinois University Carbondale, 2008.

Abraham, John P., Professor, Department of Computer Science; Networking; Ed.D., University of Houston, 1986.

Acevedo, Linda, Lecturer, Accounting and Business Law, The University of Texas Pan American, 2009.

Adair, Penelope A., Associate Professor, Department of History and Philosophy; History, Ph.D., University of California-Santa Barbara, 1993.

Agbese, Aje-Ori, Associate Professor, Department of Communication; Writing for the Mass Media, Copy Editing, Mass Media Law and Ethics, Intercultural Communication; Ph.D., Bowling Green State, 2004.

Aguilera, Lydia, Clinical Assistant Professor, Cooperative Program in Pharmacy; Pharm. D., University of Florida, 2008.

Aguirre, Maria Teresa, Clinical Assistant Professor, Clinical Lab Science Program; MT(ASCP), MS, Biology, The University of Texas-Brownsville, 2008

Akindayomi, Akinloye, Assistant Professor, Department of Accounting and Business Law; Ph.D., University of Calgary, 2006.

Ahluwalia, Punit, Associate Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Georgia State University, 2006.

Ahmad, Hassan, Professor, Department of Chemistry; Biochemistry, Ph.D., Aligarh Muslim University, 1983.

Aldridge, James W., Jr., Professor, Department of Psychology; Psychology, Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

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.

Altecor, Tatiyana, Lecturer, Department of Mathematics; MS, The University of Texas Pan American, 2006.

Alvarado, Sylvia Michelle, Lecturer, Department of Undergraduate Studies, MS, Texas A&M University, College Station, 1997.

Alvarado, Victor, Professor, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Alvarez Martinez, Stephanie, Assistant Professor, Department of Modern Languages and Literature; Spanish, Literature, Ph.D., University of Oklahoma, 2006.

Ambriz, Frank, Program Chair and Assistant Professor, Physician Assistant Studies Program; Pediatrics, Pulmonology, Internal Medicine; BS, The University of Texas Medical Branch-Galveston, 1979.

Amorim, George Jaques, Assistant Professor, 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, M.S., The University of Texas-Pan American, 2007.

Anderson, Erik Ryan, Lecturer, Department of History and Philosophy; Philosophy, MA in Philosophy, A&M University, 2001.

Anderson-Mejias, Pamela, Professor and Department Chair, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.

Andoh-Baidoo, Francis, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Commonwealth University, 2006.

Anshen, David W., Associate Professor, Department of English; Ph.D., State University of New York at Stony Brook, 2004.

Appiahene-Gyamfi, Joseph, Professor, Department of Criminal Justice; Criminology, International Criminal Justice, Corrections; Ph.D., Simon Fraser University, 1999.

Ardalani, Elvia G., Associate Professor, Department of Modern Languages and Literature; Spanish; Ed.D., Texas A&I University-Kingsville, 1990.

Arimanu, Irina, Assistant Professor, Department of Modern Languages and Literature, Ph.D., Rice University, 2010

Arizmendi, Lydia González, Associate Professor, Department of Social Work; Generalist Social Work Practice and Marco Practice; J.D., University of California-Davis, 1978; MSW, University of Michigan-Ann Arbor, 1973.

Arredondo, Sonja L., Lecturer, Department of Social Work; MAS, Our Lady of the Lake University, 1974.

Asgharian, Laleh, Lecturer, Department of Science and Engineering; MS, The University of Texas Pan-American, 2006.

Atamian, Rubik, Associate Professor, Department of Accounting and Business Law; Accounting; Ph.D., The University of Texas at Austin, 1984.

Ayala, Kara J., Associate Professor, Department of Communication Sciences and Disorders, Ph.D., Northwestern University, 2005.

Ayala, Marion, Lecturer, Department of Business Administration; MSA, The University of Texas-Pan American, 2006.

Azarbayejani, Mohammad, Assistant Professor, Department of Mechanical Engineering, Ph.D., University of New Mexico, 2009.

Baez, Nalda R., Assistant Professor, Department of Modern Languages and Literature, Ph.D., Purdue University, 2008.

Baker, Willard R., Clinical Assistant Professor, Physician Assistant Studies Program, MMS, PA-C, Alderson-Broadbent College, Philippi, West Virginia, 1999.

Balci, Tamer, Associate Professor, Department of History and Philosophy; History, Ph.D. in History, Claremont Graduate University, 2007.

Balogh, Andra's, Associate Professor, Department of Mathematics; Ph.D., Texas Tech University, 1997.

Banik, Bimal K., Professor, Department of Chemistry; Organic Chemistry; Ph.D., Jadavpur University-India.

Banu, Jameela, Assistant Professor, Department of Dietetics, Ph.D., University of Madras, Chennai, India, 1991.

Barrera, Delina, Lecturer, Department of Political Science; Ph.D., Texas Tech University, 1998.

Barrera, Iran, Assistant Professor, Department of Social Work, Ph.D., The University of Texas at Arlington, 2008

Bautista, Beatriz (Betty), Assistant Professor, Department of Nursing; MSN, University of South Carolina-Columbia, 1990.

Becker-Chambless, Amy, Lecturer, Department of English, Ph.D. Texas Tech University, 2006.

Béjar, Sergio, Assistant Professor, Department of Political Science; Ph.D., University of Notre Dame, 2011.

Behar, Stella, Professor, Department of Modern Languages and Literature; French; Ph.D., University of California at Los Angeles, 1991.

Belau, Linda, Professor, Department of English; Philosophy, Literature, and the Theory of Criticism; Ph.D., State University of New York at Binghamton, 2000.

Ben Ghalia, Mounir, 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; Health Psychology; Ph.D., The University of Tennessee-Knoxville, 2000.

Bernard, John E., Professor, Department of Mathematics; Ph.D., The University of Texas at Austin, 1978.

Bhat, Narayan, Professor and Chair, Department of Chemistry; Organic Chemistry; Ph.D., University of Poona-India, 1982.

Bhatta, Dambaru D., Associate Professor, Department of Mathematics; Ph.D., Dalhousie University-Canada, 1995.

Bhatti, Muhammad Idrees, Professor, Department of Physics and Geology; Atomic Physics; Ph.D., University of Notre Dame, 1987.

Birk, Megan Elizabeth, Assistant Professor, Department of History and Philosophy; History, Ph.D., Purdue University, 2008.

Blankenship, Charlene J., Associate Professor, Department of Rehabilitation Services; Ph.D., Southern Illinois University.

Borrego, Espiridion A., Associate Professor, Department of Public Affairs & Security Studies; Ph.D., University of Southern California, 1980.

Bose, Ramendra, Assistant Professor, Department of Mathematics, Ph.D., State University of New York, 1973

Bose, Subhash C., Beecherl Endowed Professor, Manufacturing Engineering Department; Process and Product Design, Computer-Aided Manufacturing, Robotics and Control; Ph.D., The University of Wisconsin-Madison, 1987.

Boudreau, James W., Assistant Professor, Department of Economics and Finance; Economics, Ph.D. University of Connecticut, 2009.

Bowe, George, Lecturer, Department of Criminal Justice; MA, Sam Houston University, 1975.

Bracken, Paul, Professor, Department of Mathematics; Ph.D., University of Waterloo, Ontario-Canada, 1995.

Bradley, Donald, Assistant Professor, Department of Occupational Therapy; Ph.D., Texas Women's University, 2009.

Bradley, Robert C., Associate Professor, Department of Art, Ph.D., in Art History, Columbia University, 2005.

Braithwaite, Jean, Associate Professor, Department of English. Ph.D., University of Missouri, 2004.

Brazier, Pearl W., Professor, Department of Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brickman, Stephanie J., Associate Professor and Chair, Department of Educational Psychology; Ph.D., University of Oklahoma, 1998.

Brown, Cynthia, Vice Provost for Graduate Studies; Professor, Department of Economics and Finance; Finance; Ph.D., The University of Texas-Pan American, 1998.

Brown, Danika M., Associate Professor, Department of English; Rhetoric, Composition; Ph.D., The University of Arizona, 2003.

Browne, Peter E., Associate Professor, Department of Modern Languages and Literature; Spanish; Ph.D., University of Nebraska-Lincoln, 1993.

Broz, William, Associate Professor, Department of English; English Education; Ph.D., The University of Iowa, 1996.

Brush, Timothy, Professor, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Bullard, James, Assistant Professor, Department of Chemistry, Ph.D., University of Montana, 1996.

Butcher, Jennifer, Assistant Professor, Department of Educational Leadership; Ph.D., Texas A&M University, 2009.

Butler, Alley C., Professor, Department of Manufacturing Engineering; Ph.D., Purdue University, 1992.

Cabrera, Fernando, Clinical Specialist, Department of Nursing; MSN, The University of Texas-Pan American, 2006.

Cameron, Edward T., Associate Professor, Department of English; Ph.D., State University of New York at Birmingham, 2000.

Campney, Brent MacDonald, Assistant Professor, Department of History and Philosophy; History, Ph.D., Emory University, 2007.

Canales, Patricia, Associate Professor, Cooperative Pharmacy Program; Pharm.D.; The University of Texas at Austin, 1995.

Cantú-Cabrera, Juana, Assistant Professor, Department of Nursing; MSN, The University of Texas Health Science Center-Houston, 1994.

Carlson, Ralph, Professor, Department of Educational Psychology; Psychology, Quantitative Methods, Statistics, Theories of Personality; Ph.D., University of Houston, 1974.

Carren, David B., Associate Professor, Department of Communication; TV/Theatre/Film; MFA, Spalding University Louisville, Kentucky.

Caruntu, Dumitru, Associate 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, Associate Professor, Department of Mathematics; Ph.D., Indian Statistical Institute, 2002.

Chandler, Karen, , Associate Professor and Program Coordinator, Clinical Laboratory Sciences Program; MLS(ASCP)^{cm}), MA, Central Michigan University, 1983.

Chang, Yanrong, Associate Professor, Department of Communication; Communication Studies. Ph.D., University of Iowa, 2002.

Charlton, Colin T., Associate Professor, Department of English; Ph.D., Purdue University, 2005.

Charlton, Jonikka P., Associate Vice Provost, Office of Undergraduate Studies, Associate Professor, Department of English; Ph.D., Purdue University, 2005.

Chebotko, Artem V., Assistant Professor, Department of Computer Science, Ph.D., Wayne State University, 2008.

Chen, Haiwei, Associate Professor, Department of Economics and Finance; Finance, Ph.D., Emory University, 1998.

Chen, Roy Kuan-Yu, Assistant Professor, Department of Rehabilitation; MS, Michigan State University, 2006.

Chen, Zhixiang, Professor and Chair, Department of Computer Science; Theoretical Computer Science, Machine Learning and Data Mining; Ph.D., Boston University, 1996.

Chen, Xi, Associate Professor, Department of Political Science; Ph.D., Planning, Governance and Globalization; Virginia Polytechnic Institute and State University, Blacksburg, Va., 2007.

Chipara, Dorina, Assistant Professor, Department of Physics and Geology, Ph.D., University of Bucharest, 1999.

Chipara, Mircea, Associate Professor, Department of Physics and Geology; Physics; Ph.D., Institute for Atomic Physics, 1996.

Choi, Yoonsu, Assistant Professor, Department of Electrical Engineering, Ph.D., Georgia Institute of Technology, 2005.

Choutapalli, Isaac, Assistant Professor, Department of Mechanical Engineering, Ph.D., Florida State University, 2007.

Christensen, Matthew J., Associate Professor, Department of English; Comparative Literature; Ph.D., University of California at Los Angeles, 2002.

Chu, Yul, Assistant Professor, Department of Electrical Engineering, Ph.D., University of British Columbia, 2007.

Clark, Douglas, Assistant Professor, Department of Art; MFA, University of Texas – Pan American, 2008.

Coberly, Rebecca A., Assistant Professor, Department of Music and Dance, Ph.D. in Musical Art, Texas Tech University, 2009.

Cole, Deborah L., Associate Professor, Department of English; Ph.D., University of Arizona-Tucson, 2004.

Colson, Roberto, Lecturer, Department of Mathematics; MS, State University of New York at Stony Brook, 2005

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, Associate Professor, Department of Physics and Geology; Physics; Ph.D., Kansas State University, 2006.

Corpuz, Mai Aileen, Lecturer, Department of Curriculum and Instruction; MS, De La Salle University, 1998.

Cortina, Maria Guadalupe, Associate Professor, Department of Modern Languages and Literature; Ph.D., University of Arizona, 1996.

Cox, Graham, Lecturer, Department of History and Philosophy; History, Ph.D., University of Houston, 2008

Cripps, Cynthia, Associate Professor, Department of Music and Dance, Ph.D. in Musical Art, University of Miami, 2006.

Crossler, Robert Ernest, Assistant Professor, Department of Computer Information Systems and Quantitative Methods, Ph.D., Virginia Tech University, 2009.

Crown, Stephen W., Professor, Department of Mechanical Engineering; Mechanical Engineering; Ph.D., University of Colorado, 1993.

Croyle, Kristin, Vice Provost for Undergraduate Education and Professor, Department of Psychology; Undergraduate Instruction, Adult Clinical Psychology; Ph.D., The University of Montana, 2000.

Crutchfield, Ruth, -Assistant Professor, Department of Communication Sciences and Disorders, -SLP.D., Nova Southeastern University, 2010.

Cummins, Amy, Assistant Professor, Department of English, Ph.D., University of Kansas,

Cunningham, Cory B., Assistant Professor, Department of Communication; Ph.D., University of Oklahoma, 2009.

Curts, James B., Associate Professor and Chair, Department of Curriculum and Instruction; Ph.D., University of Wisconsin, 1985.

Dabrowski, Peter P., Associate Dean, College of Arts and Humanities, Professor, Department of Music and Dance; Valley Symphony Conductor; DMA, Northwestern University, 1998.

Dambreville, Laurence, Lecturer, Department of English. MA, The University of Texas Pan American, 2009.

Damianov, Damian, Associate Professor, Department of Economics and Finance; Ph.D., University of Heidelberg, 2006.

Daniel, Clay L., Associate Professor, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark, Professor, Department of Criminal Justice; Police Administration, Police Issues, Research Methods; Ph.D., The University of Texas at Arlington, 1989.

Darcy, John, Associate Dean, College of Business Administration and Professor, Department of Accounting and Business Law; Ph.D., The University of Oklahoma, 2002.

Darsow, Fred, Associate Professor, Department of Music and Dance; Dance Choreography; MFA, Arizona State University, 1998.

Dávila, Alberto, Neuhaus Professor and Chair, Department of Economics and Finance; General Business, Economics; Ph.D., Iowa State University, 1982.

Davis, Richard, Associate Professor, Department of Music and Dance; Voice; DMA, Indiana University, 1985.

Davis, Virginia, Associate Professor, Department of Music and Dance, Ph.D. in Music, University of Arizona, 2005.

Debnath, Lokenath, Professor, Department of Mathematics; Pure and Applied Mathematics, Mathematical Physics; Ph.D. (Pure Mathematics), University of Calcutta, 1965; Ph.D. (Applied Mathematics), University of London, 1967.

De La Trinidad, Maritza, Assistant Professor, Department of History and Philosophy, Ph.D., University of Arizona, 2008.

DeLeon, Leticia, Associate Professor, Department of Curriculum and Instruction; Ed.D., University of Houston, 2005.

De los Santos, Miguel A., Associate Professor, Department of Educational Leadership; Educational Administration; Ph.D., The University of Texas at Austin, 1980.

De Souza, Carlos Roberto, Assistant Professor, Department of Art, Ph.D. in Art History, University of California, Santa Barbara, 2008.

Dearth, Daniel K., Associate Professor, Department of Criminal Justice; Police Administration, Correctional Administration, Policing Issues, Criminal Procedures and Evidence; Ph.D., Sam Houston State University, 1984.

Dearth, Robert Keith, Assistant Professor, Department of Biology, Ph.D., Texas A&M University, 2003

Desai, Chintal Ajitbhai, Assistant Professor, Department of Economics and Finance; Finance, Ph.D., The George Washington University, 2008.

DeYoe, Hudson, Professor, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.

Diaz, Hector L., Professor and Chair, Department of Social Work; Ph.D., University of Illinois at Chicago, 1995.

Diaz, Maria I., Assistant Professor, Department of Nursing; Ed.D., NOVA University, Fort Lauderdale, Florida, 1993.

Diaz, Sylvia, Lecturer, Department of Chemistry; MA, The University of Texas at Austin, 2000.

Díaz, Walter, Dean, College of Social and Behavioral Sciences and Professor, Department of Political Science; Ph.D., University of Michigan, 1998.

Diaz, Zulmaris, Associate Professor, Department of Curriculum & Instruction; Ph.D., Texas A&M University, 2004.

Diaz-Barriga, Miguel, Professor and Chair, Department of Sociology and Anthropology; Anthropology, Ph.D., Stanford University, 1991.

Dietrich, Gustavo G., Lecturer, Department of Computer Science; Programming Languages and Methodology; MS, Texas A&M University-Kingsville, 1988.

Dimakis, Nikolas, Chair and Associate Professor; Department of Physics and Geology; Ph.D., Illinois Institute of Technology-Chicago, 1997.

Dirrgil, Frank, Assistant Professor, Department of Biology, Ph.D., University of Connecticut, 1998.

Dong, Wenjie, Assistant Professor, Department of Electrical Engineering, Ph.D., University of California, 2009.

Donner, William, Associate Professor, Department of Sociology and Anthropology; Disaster Studies; Ph.D., University of Delaware, 2007.

Dorsey, Margaret E, Associate Professor, Department of Psychology, 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.

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Gilson, Gregory, Associate Professor and Chair, Department of History and Philosophy; Ph.D., University of Wisconsin-Madison, 1998

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Pearson, Thomas, Associate Professor, Department of History and Philosophy; Ph.D, Southern Illinois University-Carbondale, 1994.

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