

UTPA

The University of Texas-Pan American



undergraduate
CATALOG
2002-2004

The University of Texas-Pan American 2002 • 2004 Undergraduate Catalog

The University of Texas-Pan American is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia, telephone 404/679-4501) to award bachelor's, master's and doctoral degrees. In addition, these programs are separately accredited or approved by the:

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

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

American Chemical Society

American Dietetic Association

American Speech-Language-Hearing Association

Board of Nurse Examiners for the State of Texas

The Council on Rehabilitation Education

The Council on Social Work Education

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

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

National Association of Schools of Theatre

State Board for Educator Certification

Texas Education Agency

Accreditation Review Commission on Education for the Physician Assistant

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

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

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

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2002-2004 Undergraduate Catalog

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

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

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

Non-Discrimination Policy Statement

The University of Texas-Pan American declares and reaffirms a policy of administering all of its educational programs and related supporting services and benefits in a manner that does not discriminate because of a student's or prospective student's race, color, religion, sex, national origin, age, veteran status, disability or other characteristics that lawfully cannot be the basis for provision of such services. These programs, services and benefits include, but are not limited to, admission, class assignments, scholarships and other financial and employment assistance, counseling, physical education and recreational services, and the membership practices of registered student organizations.

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

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of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990.

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

Inquiries or complaints may be directed to the immediate supervisor or to the Compliance Officer in Room 335, Administration Building, telephone 956/381-2127; the chair of the department; or the Dean of Students in Room 104 of the University Center, telephone 956/381-2260. Inquiries concerning ADA should be directed to the Coordinator of Services for Persons with Disabilities, Emilia Schunior Ramirez Hall, Room 100, telephone 956/316-7005.

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

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

Undergraduate Catalog

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CALENDAR 2002 • 2003

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

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

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

► Fall Semester 2002

February 1, 2002, Friday

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

February 28, 2002, Thursday

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

March 25, 2002, Monday, (tentative)

ASSIST registration (telephone or web) begins by appointment.

August 9, 2002, Friday

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

August 26, 2002, Monday

First day of classes.

September 2, 2002, Monday

Labor Day holiday.

September 9, 2002, Monday

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

September 11, 2002, Wednesday

Twelfth University class day; official census date.

September 24, 2002, Tuesday

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

October 21, 2002, Monday, (tentative)

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

November 20, 2002, Wednesday

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

November 28-30, 2002 inclusive

Thanksgiving holiday.

December 1, 2002, Sunday

Scholarship deadline for academic year 2003-2004.

December 5-6, 2002 inclusive

Limited departmental final exams; dead days.

December 7-12, 2002 inclusive

Fall semester final examinations.

December 13, 2002, Friday

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

December 13 and 14, 2002, (tentative)

Commencement exercises.

► Spring Semester 2003

September 6, 2002, Friday

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

September 9, 2002, Monday

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

September 15, 2002, Sunday

Recommended priority date for submission of the 2002/2003 "Free Application for Federal Student Aid"

(FAFSA) for spring 2003. (Final Deadline: You may still submit the 2002/2003 FAFSA through June 30, 2003.)

October 21, 2002, Monday, (tentative)

ASSIST registration (telephone or web) begins by appointment.

December 20, 2002, Friday

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

January 6, 2003, Monday

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

January 13, 2003, Monday

First day of classes.

January 20, 2003, Monday

Martin Luther King Jr. Day holiday; no classes.

January 29, 2003, Wednesday

Twelfth University class day; official census date.

February 11, 2003, Tuesday

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

March 10-15, 2003 inclusive

Spring Break.

March 24, 2003, Monday, (tentative)

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

April 7, 2003, Monday

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

April 18-19, 2003 inclusive

Easter holiday.

April 25, 2003, Friday

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

May 8-9, 2003 inclusive

Limited final exams; dead days

May 10-15, 2003 inclusive

Spring semester final examinations.

May 16, 2003

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

May 16 and 17, 2003, (tentative)

Commencement exercises.

► *First Summer Session 2003*

January 6, 2003, Monday

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

February 3, 2003, Monday

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

February 15, 2003, Saturday

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

March 24, 2003, Monday, (tentative)

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

May 9, 2003, Friday

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

June 2, 2003, Monday

First day of classes.

June 5, 2003, Thursday

Fourth University class day; official census date.

June 11, 2003, Wednesday

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

June 27, 2003, Friday

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

July 4, 2003, Friday

Independence Day Holiday.

July 8, 2003, Tuesday

First summer session final examinations.

July 11, 2003, Friday

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

► Second Summer Session 2003

January 2, 2003, Thursday

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

January 6, 2003, Monday

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

February 3, 2003, Monday

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

February 15, 2003, Saturday

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

March 24, 2003, Monday, (tentative)

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

June 20, 2003, Friday

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

July 10, 2003, Thursday

First day of classes.

July 15, 2003, Tuesday

Fourth University class day; official census date.

July 21, 2003, Monday

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

August 4, 2003, Monday

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

August 14, 2003, Thursday

Second summer session final exams.

August 18, 2003, Monday

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

► Fall Semester 2003

February 3, 2003, Monday

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

February 28, 2003, Friday

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

March 24, 2003, Monday, (tentative)

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

April 7, 2003, Monday

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

August 8, 2003, Friday

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

August 25, 2003, Monday

First day of classes.

September 1, 2003, Monday

Labor Day holiday.

September 8, 2003, Monday

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

September 10, 2003, Wednesday

Twelfth University class day; official census date.

September 23, 2003, Tuesday

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

October 20, 2003, Monday, (tentative)

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

November 19, 2003, Wednesday

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

November 27-28, 2003 inclusive

Thanksgiving holiday.

December 1, 2003, Monday

Scholarship application deadline for academic year 2004-2005.

December 4-5, 2003 inclusive

Limited departmental final examinations; dead days.

December 6-11, 2003 inclusive

Fall semester final examinations.

December 12, 2003, Friday

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

December 12 and 13, 2003, (tentative)

Commencement exercises.

► Spring Semester 2004**September 5, 2003, Friday**

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

September 8, 2003, Monday

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

September 15, 2003, Monday

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

October 20, 2003, Monday, (tentative)

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

December 19, 2003, Friday

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

January 5, 2004, Monday

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

January 12, 2004, Monday

First day of classes.

January 19, 2004, Monday

Martin Luther King Jr. Day holiday; no classes.

January 28, 2004, Wednesday

Twelfth University class day; official census date.

February 10, 2004, Tuesday

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

March 8-13, 2004 inclusive

Spring Break.

March 22, 2004, Monday, (tentative)

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

April 5, 2004, Monday

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

April 9-10, 2004 inclusive

Easter holiday.

April 16, 2004, Friday

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

April 29-30, 2004 inclusive

Limited departmental final examinations; dead days.

May 1-6, 2004 inclusive

Spring semester final examinations.

May 7, 2004, Friday

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

May 7 and 8, 2004, (tentative)

Commencement exercises.

► *First Summer Session 2004***January 2, 2004, Friday**

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

January 5, 2004, Monday

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

February 2, 2004, Monday

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

February 15, 2004, Sunday

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

March 22, 2004, Monday, (tentative)

ASSIST registration (telephone or web) begins by appointment.

April 30, 2004, Friday

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

May 31, 2004, Monday

First day of classes.

June 3, 2004, Thursday

Fourth University class day; official census date.

June 9, 2004, Wednesday

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

June 23, 2004, Wednesday

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

July 5, 2004, Monday

First summer session final examinations.

July 7, 2004, Wednesday

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

► *Second Summer Session 2004***January 2, 2004, Friday**

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

January 5, 2004, Monday

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

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February 2, 2004, Monday

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

February 15, 2004, Sunday

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

March 22, 2004, (tentative)

ASSIST registration (telephone or web) begins by appointment.

June 11, 2004, Friday

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

July 8, 2004, Thursday

First day of classes.

July 13, 2004, Tuesday

Fourth University class day; official census date.

July 19, 2004, Monday

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

August 2, 2004, Monday

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

August 12, 2004, Thursday

Second summer session final examinations.

August 16, 2004, Monday

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

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

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

► **Mission Statement**

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

The University of Texas-Pan American is committed to providing an environment of academic freedom in which faculty engage in teaching, research and service.

Students learn from faculty scholars who engage in research and creative activity to promote excellence in teaching, to develop and maintain scholarship, and to extend human knowledge. The results of that research and creativity are shared with the general public through performance, presentation, publication and public service activities. The University of Texas-Pan American strives to fulfill its responsibilities by providing a variety of quality academic programs in social and behavioral sciences, science and engineering, arts and humanities, health sciences and human services, education, and business administration leading to degrees at the undergraduate and graduate level and to certification in selected professions.

These programs are grounded in the liberal arts and emphasize competency, multicultural understanding and high ethical standards.

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

In addition, the University is committed to providing appropriate and current library, information

technology, computer, laboratory and physical resources to support its academic programs and to evaluating consistently and responsibly the effectiveness of its instructional programs. The University of Texas-Pan American seeks to complement the instructional programs of the institution by:

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

► **University History**

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

In 1933, the institution was approved by the State Department of Education, designated a "First Class Junior College" by the Association of Texas Colleges, became a member of the Association of Colleges and Secondary Schools of Southern States and was renamed Edinburg Junior College. In 1947, Edinburg Junior College began offering classes at night and at off-campus locations in neighboring towns. The following year, the name was changed again, this time to Edinburg Regional College, as the school was separated from the Edinburg School District and began receiving partial state support.

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

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

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

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

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

The greatest change in recent years was the University's merger on September 1, 1989, with The University of Texas System, renaming the school The University of Texas-Pan American. The historic event culminated two years of study, hearings, discussion and negotiations involving regents, legislators, faculty, students, alumni and the community. With the addition of Pan American University, The University of Texas System gained a window on eastern Mexico and a strong presence in one of the fastest-growing regions of the state. To its advantage, Pan American gained the participation and support of the System and its components in expanding the number of academic opportunities it offers its students.

In 1994, the Texas Higher Education Coordinating Board approved UT Pan American's first doctoral degree, a Ph.D. program in business administration with an emphasis in international business, effectively marking the beginning of a new era in the development of the institution. In 1998, the Coordinating Board approved a second doctoral program, an Ed.D. in educational leadership. UT Pan American has continued to broaden its curriculum, adding baccalaureate, master's and doctoral degree programs. Today, it is the 10th largest of the state's 35 senior institutions.

► The Students

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

In May 2000, The Hispanic Outlook in Higher Education reported that UTPA is second in the nation in the number of bachelor degrees awarded to Hispanics and first in the state of Texas.

Enrollment in fall 1999 was 12,500. The Texas Higher Education Coordinating Board predicts the University will have a fall enrollment of 15,600 students by the year 2010.

► Degrees and Programs

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

◆ Bachelor's Degrees

College of Arts and Humanities

- Art (BA, BFA)
- Communication
 - Journalism (BA)
 - Speech Communication (BA)
 - Theatre (BA)
- English (BA)
- History (BA)
- Inter-American Studies
 - (Latin-American Studies) (BA)
- Mexican-American Studies (BA)
- Music (BA)
- Philosophy (BA)
- Spanish (BA)

College of Business Administration

- Accounting (BBA)
- Computer Information Systems (BBA)
- Economics (BA, BBA)
- Finance (BBA)

International Business (BBA)
 Management (BBA)
 Marketing (BBA)

College of Education

Dance (BS)
 Health (BS)
 Kinesiology (BS)
 Interdisciplinary Studies (Elementary)

College of Health Sciences and Human Services

Clinical Laboratory Sciences (BS)
 Communication Disorders (BA)
 Dietetics (BS)
 Nursing (BSN)
 Occupational Therapy (BS)
 Physician Assistant Studies (BS)
 Rehabilitative Services (BS)
 Social Work (BSW)

College of Science and Engineering

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

College of Social and Behavioral Sciences

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

Interdisciplinary Bachelor's Degrees

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

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

** See the *College of Education* for information and advising.

◆ Graduate Degrees

► Master's Degrees

College of Arts and Humanities

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

College of Business Administration

Business Administration (MBA)

College of Education

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

College of Health Sciences and Human Services

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

College of Science and Engineering

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

College of Social and Behavioral Sciences

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

Interdisciplinary Master's Degrees

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

▶ Doctoral Degrees**College of Business Administration**

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

College of Education

Educational Leadership (Ed.D.)

College of Health Sciences and Human Services

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

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

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

The University of Texas System
**BOARD OF REGENTS
 & SYSTEM OFFICERS**

Officers of the Board

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

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Admission

► General Information

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

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

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

Office of Admissions and Records

Student Services Building, Room 108
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78541-2999
956/381-3040 or 956/381-2201
Voice/Telecommunications
Device for the Deaf: 956/381-2215
Web: www.panam.edu/admissions
E-mail: admissions@panam.edu

Required high school and/or college transcripts must be requested from each individual institution attended. These official transcripts must be sent by the institution directly to the Office of Admissions and Records at the above address. Information regarding how test scores may be requested may be obtained from the University Testing Center, UTPA Annex, 2412 S. Clossner, telephone 956/316-2457. E-mail: potesting@panam.edu

Failure to submit a complete and correct application, including all transcripts, is grounds for rejection of application, withdrawal of offer of acceptance or, after enrollment, disciplinary action including expulsion. Any applicant, whether a new

student or a former student at the University, who has attended another collegiate institution is not at liberty to disregard any part of the collegiate record and apply for admission to UT Pan American on the basis of a partial record of his or her college work, but is subject without exception to the regulations for admission.

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

◆ Texas Common 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 the Office of Admissions and Records for full details.

◆ Automated Student Information Services

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

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

Web for Students: The services available by kiosk and telephone voice response are also available via the World Wide Web at <http://assist.panam.edu> or cp.panam.edu (Campus Pipeline)

◆ Application Deadlines

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

The second application deadline, usually about 60 days before the beginning of the semester, is for late registration. Specific deadline dates for each semester are listed in the Schedule of Classes and in the University Calendar 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, Paragraph 51.931. If the applicant informs the Office of Admissions and Records 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.

◆ Procedure after Admission

Successful applicants will receive a letter of acceptance from the Office of Admissions and Records. Entering freshmen, first-year freshmen, provisional (PEP) students, students who have not passed the Texas Academic Skills Program (TASP) test, and students who have not yet declared a major will report for advisement in the LAC Counseling and Advisement Center, Student Services Building Room 513. All other students are advised in their intended major departments, which will appoint an advisor to counsel them on registration, degree programs and other required procedures. Students should have their schedules approved each semester by their advisors (or an approved substitute) before registering for courses. Advisement is mandatory at all levels.

► Undergraduate Admission

Applicants may gain undergraduate admission to the University as entering freshmen, transfer students and through concurrent enrollment as high school juniors and seniors.

◆ Entering Freshman Admission

Entering freshmen are students who have not attended any accredited college or university. To be admitted as an entering freshman, an applicant must meet the following requirements and submit required documents to the Office of Admissions and Records by the published deadline date for the semester for which he or she is applying. Applicants must submit the following required documents:

1. Entering Freshman Application for Admission.
2. High School Transcript showing rank in class, official date of graduation and that the student has earned at least 21 accredited high school units, or GED scores that qualify for issuance of a Texas high school certificate based on GED test results. (For more information on high school accreditation, see the Glossary on page 351.)

3. American College Testing Program (ACT) scores or Scholastic Aptitude Test (SAT) scores. ACT or SAT scores posted on an official high school transcript will be accepted. Entering freshmen will not be permitted to register without ACT or SAT scores. “Pre” test scores such as the PSAT and scores from a residual ACT test taken at an institution other than UT Pan American may not be used for admission purposes.

4. Test of English as a Foreign Language (TOEFL) is required of students graduating from a high school in a country where English is not the native language (minimum score of 500 for paper based test or 173 for computer based test required).

NOTE: International students must also complete requirements listed under International Student Admission.

5. Texas Academic Skills Program (TASP) exam (or approved alternate exam) sent directly from the testing agency. Entering freshmen will not be permitted to enroll in college-level courses without TASP scores unless exempt from TASP. See page 59 for more information.

There are two types of admission for entering freshmen: Regular Admission and Provisional Enrollment.

► Regular Admission

Applicants who have graduated from accredited United States high schools, or their equivalents, are eligible for Regular Admission if they meet one of the following criteria:

1. completion of a high school curriculum certified as “Recommended” or “Distinguished Achievement;” or
2. completion of a regular high school program

with a class rank in the top quartile of the graduating class; or

3. an ACT Composite of 20 or above (SAT 930 or above).

Students must attend University orientation and be advised by the Counseling and Advisement Center in the Learning Assistance Center for their first year.

The following recommended High School Curriculum will be phased-in as a requirement for Regular Admission:

English Language Arts **4 credits**

***English I, II, III, IV**

▶ English I and II for Speakers of Other Languages may be substituted for English I and II only for immigrant students with limited English proficiency.

Mathematics **3 credits**

***Algebra I, Algebra II and Geometry**

Science **3 credits**

Selected from: four specified areas as indicated below. (No more than one 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 (one credit) *and*
- ▶ U.S. Government (one-half credit)

Economics **1/2 credit**

with emphasis on the free enterprise system and its benefits (one-half credit).

Physical Education **1 1/2 credits**

One-and-one-half credits to include Foundations of Personal Fitness (one-half credit). (Limit of two credits.) *Can substitute:*

- ▶ drill team
- ▶ marching band
- ▶ cheerleading

- ▶ ROTC
- ▶ athletics
- ▶ Dance I-IV
- ▶ approved private program *or*
- ▶ certain career and technology education courses

Health Education **1/2 credit**

One half credit *or*

Health Science Technology (one credit)

Language other than English **2 credits**

Two credits must consist of Level I and Level II in the same language.

Fine Arts **1 Credit**

One credit. (Speech may not substitute.)

Speech **1/2 credit**

One-half credit selected from either:

- ▶ Communication Applications
- ▶ Speech Communication
- ▶ Public Speaking
- ▶ Debate *or*
- ▶ Oral Interpretation

Technology Application **1 credit**

One credit selected from either:

- ▶ Computer Science I or II
- ▶ Desktop Publishing
- ▶ Digital Graphics/Animation
- ▶ Multimedia
- ▶ Video Technology
- ▶ Web Mastering
- ▶ Independent Study in Technology Applications
- ▶ Business Image Management and Multimedia
- ▶ Telecommunications and Networking, Business Computer Information Systems I or II
- ▶ Business Computer Programming
- ▶ Computer Applications
- ▶ Technology Systems (computer lab-based)
- ▶ Communication Graphics (computer lab-based) *or*
- ▶ Computer Multimedia and Animation Technology

Electives

(Choose from Option I, Option II or Option III, below)

TOTAL**3 1/2 credits****24 credits****1. Option I: Mathematics, Science, Elective.**

A. Mathematics (one credit) must be Precalculus.

B. Science (one credit) selected from either:

- ▶ Integrated Physics and Chemistry
- ▶ Biology, AP Biology, or IB Biology
- ▶ Environmental Systems, IB Environmental Systems or AP Environmental Science
- ▶ Chemistry, AP Chemistry, or IB Chemistry
- ▶ Aquatic Science
- ▶ Physics, AP Physics, or IB Physics
- ▶ Astronomy
- ▶ Geology, Meteorology, and Oceanography
- ▶ Scientific Research and Design
- ▶ Anatomy and Physiology of Human Systems
- ▶ Medical Microbiology
- ▶ Pathophysiology *or*
- ▶ Principles of Technology I and Principles of Technology II.

C. Elective (one and one-half credits).

2. Option II: Career and Technology.

Three and one-half credits in a coherent sequence of courses for career and technology preparation.

3. Option III: Academic.

Three and one-half credits in state-approved courses in:

- ▶ language arts
- ▶ science
- ▶ social studies
- ▶ mathematics
- ▶ languages other than English
- ▶ fine arts *or*
- ▶ technology applications

*Advanced Placement (AP), International Baccalaureate (IB) or college courses may substitute.

◆ Provisional Enrollment Program (PEP)

Entering freshman applicants who have graduated from accredited U.S. high schools or their equivalents but who do not meet the criteria for regular admission may enroll through the Provisional Enrollment Program (PEP).

PEP students must attend University orientation, must be advised by the LAC Counseling and

Advisement Center, must select classes from those prescribed by the University College/General Education requirements, must attend academic assessment sessions with University advisors each semester, and must participate in non-credit programs identified to develop study and academic skills.

During the semester in which a PEP student has a minimum cumulative total of nine (9) or more attempted hours, the student may fulfill criteria for regular admission by meeting two requirements:

1. a grade point average (GPA) of 2.0 or higher in courses completed from at least two of the following areas: English, mathematics, natural sciences, social sciences, foreign language or humanities; and
2. successful completion (with grade of A, B, C, D, CR or Pass) of attempted hours:

| Enrolled: | Must Complete: |
|------------------|-----------------------|
| first 9 hours | 6 hours |
| 10 to 12 hours | 9 hours |
| above 12 hours | 10 hours |

PEP students who do not have a 2.0 GPA (based upon 9 or more attempted hours) will be permitted an additional semester of enrollment if they have at least a 1.5 GPA and if they meet the "successful completion" criteria outlined above. During this additional PEP semester, students must earn at least the minimum GPA required by probation policies for Regular Admission students (see requirements on page 59). PEP students may satisfy the requirements for Regular Admission when they complete 21 earned hours with the GPA required to avoid academic probation.

PEP students who do not satisfy these conditions for continued enrollment have two options for readmission to UT Pan American:

1. apply for "provisional" readmission after two calendar years from the date of last attendance, or
2. transfer 9 college-level hours from another accredited college or university with a 2.0 or higher GPA.

Refer to the section on scholastic probation and suspension on page 58 of this catalog for additional information.

◆ University Honors Program

The purpose of the University Honors Program is to provide capable and interested students with a means of enriching their college education. Students in the program attend special honors classes at the

freshman and sophomore level and complete an independent study program in their majors or a related field of study at the junior and senior level.

There are three ways beginning freshmen win admission to the Honors Program:

1. have a composite ACT score of 22 or higher (or SAT equivalent of 1030), or
2. have graduated in the top 10 percent of their class, or
3. have graduated with a 90 percent or higher grade average in academic courses.

Admission to the University Honors Program is not granted as a result of admission to the University. Students must apply directly to the Honors Program. For an application or information, contact:

Director, University Honors Program

Social and Behavioral Sciences Building, Room 104
The University of Texas-Pan American
1201 W. University Drive
Edinburg, TX 78541-2999
956/381-3461

Students who already have college credit may also apply for admission to the University Honors Program. College grades and recommendations from professors determine a college student's admission to the program. Any student who has earned 12 semester hours or more of college credit with at least a 3.0 GPA is eligible for admission to the Honors Program. A list of courses and other information about the Honors Program are on page 93 and page 295 of this catalog. Contact the University Honors Program office for additional information.

◆ **Concurrent Enrollment Program
for High School Students**

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

NOTE: Students who receive Concurrent Enrollment credit at UT Pan American may be eligible for The University Scholars Scholarships (tuition and fees for four years) upon regular admission to the University. For more information, contact the Scholarship Office at 956/381-2190.

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

▶ Application for Concurrent Enrollment Admission.

▶ High school transcript sent directly from the high school showing completion of the sophomore year.

▶ American College Testing Program (ACT) scores with a minimum composite of 22 [or equivalent Scholastic Assessment Test (SAT) score of 1030].*

▶ Scores from the Texas Academic Skills Program (TASP) (or approved alternate exam) sent directly from the testing agency. Students will not be permitted to register without TASP scores unless exempt from TASP. See page 59 for more information.

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

All admission documents for the Concurrent Enrollment Program must be submitted to:

**The University of Texas-Pan American
High School to University Services**

Mailing address: 1201 W. University Dr.,
Edinburg, TX 78541-2999
Physical address: UTPA Annex #101,
2412 S. Closner, Edinburg, Texas
Phone: 956/388-2700
Fax: 956/388-2711
E-mail: ce@panam.edu

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

In order to continue in the Concurrent Enrollment Program, participating students must earn a grade of "C" or higher in each University course taken and must meet all TASP requirements as mandated by the State of Texas (see requirements on page 59).

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

transcript indicating: (1) that the student is a graduate; (2) that the student has earned at least 21 accredited high school units; and (3) the student's class rank. Concurrent Enrollment students who wish to continue their studies at UT Pan American after high school graduation will be readmitted as Entering Freshmen and will be invited to attend Freshman Orientation.

Concurrent Enrollment students are assessed regular student fees in accordance with current rates set for all other students. Although financial aid is not available for students in the Concurrent Enrollment Program, UT Pan American has formed partnerships with school districts participating in the "High School to University" Program to make the program available at a very limited cost to students.

◆ The High School to University Program (On-Campus Attendance or Distance Learning)

Qualified students are encouraged to apply for this program through their high schools or school districts. UT Pan American works with participating districts to provide access to specific courses and tuition incentives that cover most of the student's costs. Typically, the school districts and University plan these courses one semester in advance of the fall or spring term when they are offered.

Admission Criteria for the High School to University Program:

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

◆ The Independent Student Program (On-Campus Attendance)

Outstanding high school students may apply on an individual basis to take college classes in the evening or on weekends. High school counselors are usually available to assist individual students in preparing their applications for admission to the Concurrent Enrollment Program.

Admission Criteria for the Independent Student Program:

1. ACT composite of 22 (SAT 1030).
2. Top 10% class rank or 90 or above average in academic* courses.

3. Recommendations from high school counselor and principal each semester of attendance.
4. Permission of parent or guardian.
5. Meet deadlines for Concurrent Enrollment admission.

◆ Concurrent Enrollment Honors Program

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

Admission Criteria for the Concurrent Enrollment Honors Program

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

- ▶ Complete a Concurrent Enrollment Honors Program application form.
- ▶ Submit a personal narrative that:
 1. summarizes the important events in the student's life, giving particular attention to special interests and to any honors or awards received;
 2. gives the student's reasons for wanting to participate in the Concurrent Enrollment Honors Program at UTPA.
- ▶ Have an ACT composite score of at least 22 (or the SAT equivalent, 1030).

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

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

◆ Returning Student Admission

Students who last attended UT Pan American are admitted as Returning Students after an absence of at least one regular semester. To be admitted as a Returning Student, an applicant must be in good academic standing or have served his or her period of suspension, and submit the following to the Office of Admissions and Records by the published deadline date for the semester applying.

1. Returning Student Application for Admission.

2. Clear Record of Academic or Financial "Holds." Returning students must clear any previous admission or financial obligations to the University prior to readmission.

3. Texas Academic Skills Program (TASP) exam (or approved alternate exam) sent directly from the testing agency. Students will not be permitted to enroll in college-level courses without TASP scores unless exempt from TASP. See pages 59-60 for more information.

Students not in attendance for the previous regular semester should apply for readmission for the semester in which they plan to resume studies. For application deadlines, see the printed Schedule of Classes or the University Calendar in this catalog.

It is recommended that students who are returning after an extended absence seek advising, either from an academic advisor or the LAC Counseling and Advisement Center. Students with 60 or more hours should work with their academic advisor in their major department to make any necessary updates to their degree plan.

Returning students who are not TASP exempt and who have not passed all sections of TASP, must seek Advising at the LAC Counseling and Advisement Center.

Students who have course credit or grades earned 10 or more years ago may elect to be readmitted under the Academic Fresh Start program. See page 16 for more information.

◆ Transfer Admission

Students admitted as Transfer Students have attended an accredited college or university other than, or in addition to, UT Pan American. To be admitted as a Transfer Student, an applicant must submit the following information to the Office of Admissions and Records:

1. Transfer Student Application for Admission.

2. Official College Transcript(s) sent directly from each institution attended. A student's previous college

work will be evaluated in terms of UT Pan American standards. Only coursework or degrees earned at an institution accredited by a regional accrediting association will be recognized. (For more information on accreditation, see the Glossary on page 351.) All college transcripts must be sent directly from the institution attended to the Office of Admissions and Records. Transcripts that are hand-carried, faxed or issued to students will not be accepted.

3. For transfer students with less than 30 hours of transferable college-level work, High School Transcript (or GED scores) and American College Testing Program (ACT) scores or Scholastic Aptitude Test (SAT) scores. Scores from a residual ACT test taken at an institution other than UT Pan American may not be used for admission purposes.

4. TASP (Texas Academic Skills Program) scores sent directly from the testing agency for TASP students. Students will not be permitted to enroll in college level courses without TASP scores unless exempt from TASP. (For more information on TASP requirements, see pages 59-60.)

5. For international students only: Documents and other requirements listed under International Student Admission on page 23.

All documents submitted become the property of UT Pan American. Transfer students who are not TASP exempt, or who have not passed all three sections of TASP, are required to attend a mandatory orientation session.

Students who are on academic suspension based on UT Pan American standards will not be granted admission during the regular (fall or spring) semesters of the suspension period. Students on suspension are encouraged to enroll for summer sessions to repeat courses in which they have low or failing grades. (For information on scholastic suspension, see page 58.)

Failure to submit a complete and correct application, including all transcripts, is grounds for rejection of application, withdrawal of an offer of acceptance or, after enrollment, any disciplinary action including expulsion. Any applicant, whether a new student or a former student at the University, who has attended another collegiate institution is not at liberty to disregard any part of the collegiate record and apply for admission to UT Pan American on the basis of the high school record or a partial record of his or her college work, but is subject without exception to the regulations given above.

Students who have course credit or grades earned 10 or more years ago may elect to be readmitted under

the Academic Fresh Start program. See page 16 for more information.

► Transfer of Undergraduate Credits

Transfer of regular academic credit or recognition of degrees from another institution to 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 transfer credit was awarded. Since accreditation does not address these questions, this information must be obtained from the catalog and other materials from the sending institution.

The University accepts transfer credit and recognizes degrees from both traditional and non-traditional education institutions that are accredited by regional accreditation bodies in the United States. In cases where credits and degrees are awarded by non-traditional accredited institution requiring no in-residence coursework, individual evaluation of transcripts must be made to determine credits for transfer. These evaluations will normally be made by the appropriate academic or administrative office.

There may be some differences between the acceptance of credit for admission purposes and the

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

Foreign institutions, in most cases, are chartered and authorized by their national governments, usually through a ministry of education. Although this provides for a standardization within a country, it does not produce useful information about comparability from one country to another. No other nation has a system comparable to the voluntary accreditation used in the United States. The Country Index, published by the International Education Research Foundation Inc., and the student's performance in his or her first year of coursework shall be used as the guide for evaluating post-secondary work from foreign institutions.

► Transfer Credit Guidelines

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

1. *Bible Coursework* — Exegetical or doctrinal courses in religion are not transferable. Courses in Bible of a historical or literary nature (but non-doctrinal) are transferable up to a maximum of 12 semester hours of lower-division credit.
2. *Incomplete Grades* — Incomplete grades are treated as "F" grades for the purpose of grade point average calculation.
3. *Life Experience* — Normally, no credit will be awarded for "life experience". Exception to this rule may include those cases where the credit has been validated either by another accredited institution of higher education, or by a test administered by an academic department and approved by the Provost's Office.
4. *Remedial Courses* — Sub-college courses such as remedial reading, developmental reading, speed reading, remedial science and orientation are not transferable for credit.
5. *Terminal Courses* — Terminal courses offered at many junior colleges are not offered for the purpose of transfer to senior colleges and usually are clearly labeled in the college catalog as being non-transferable. Examples of terminal courses are auto mechanics, machine shop, electricity, data processing and welding.

(There will be limited exceptions to this rule in the case of the Bachelor of Applied Arts and Sciences degree. For more information, see page 216.)

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 the Office of Admissions and Records.

► **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 in the Office of Admissions and Records.

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 61.078(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, and the credit will be treated as if the courses had actually been taken on the receiving institution's campus.

The table on pages 24-25 lists the courses UT Pan American has identified as common and their TCCNS equivalents. Before using this table, students should be sure that the institution they attend employs the TCCNS. Course availability varies from institution to institution.

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

The UT Pan American Office of Admissions and Records must receive an official transcript directly from the registrar's office of the institution attended before credit can be transferred. (See section on Transfer of Undergraduate Credits on page 22 for complete transfer of course credit regulations.)

◆ **Distance Learning Courses**

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

For further information, contact the course instructor, visit the Center for Distance Learning web site at cdl.panam.edu or call the Center at 956/381-2979.

Texas Common Course Numbering System

2 0 0 2 • 2 0 0 4

Texas Common Course Number Sequence

*The following is an alphabetical listing of Texas Common Course Numbers
and their UT Pan American course equivalents:*

| <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> |
|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|
| ACCT 2301 | ACC 2329 | CRIJ 2313 | CRIJ 2313 | FREN 1311 | FREN 1321 | PHED 1301 | KIN 1351 |
| ACCT 2401 | ACC 2421 | CRIJ 2314 | CRIJ 2314 | FREN 1312 | FREN 1322 | PHED 1306 | HLTH 1354 |
| ANTH 2346 | ANTH 1323 | CRIJ 2323 | CRIJ 2323 | FREN 2311 | FREN 2321 | PHED 1346 | HLTH 2371 |
| ANTH 2302 | ANTH 1342 | CRIJ 2326 | CRIJ 2326 | FREN 2312 | FREN 2322 | PHED 2255 | KIN 2281 |
| ARTS 1301 | ART 1301 | CRIJ 2328 | CRIJ 2328 | GEOG 1300 | GEOG 2313 | PHIL 1301 | PHIL 1310 |
| ARTS 1303 | ART 2351 | DANC 1141 | DANC 1141 | GEOG 1403 | GEOG 1401 | PHIL 2303 | PHIL 1320 |
| ARTS 1304 | ART 2352 | DANC 1142 | DANC 1142 | GEOG 1404 | GEOG 1402 | PHIL 2306 | PHIL 2330 |
| ARTS 1311 | ART 1331 | DANC 1145 | DANC 1145 | GERM 1311 | GERM 1331 | PHIL 2307 | PHIL 2350 |
| ARTS 1312 | ART 2332 | DANC 1146 | DANC 1146 | GERM 1312 | GERM 1332 | PHYS 1101 | PHYS 2101 |
| ARTS 1316 | ART 1311 | DANC 1149 | DANC 1149 | GERM 2311 | GERM 2331 | PHYS 1102 | PHYS 2102 |
| ARTS 2316 | ART 2321 | DANC 1153 | DANC 1153 | GERM 2312 | GERM 2332 | PHYS 1301 | PHYS 2301 |
| ARTS 2317 | ART 2322 | DANC 1154 | DANC 1154 | GOVT 2301 | POLS 2313 | PHYS 1302 | PHYS 2302 |
| ARTS 2326 | ART 2341 | DANC 1201 | DANC 1201 | GOVT 2302 | POLS 2314 | PHYS 1401 | PHYS 1401 |
| ARTS 2333 | ART 2361 | DANC 1241 | KIN 2236 | GOVT 2304 | POLS 1333 | PHYS 1402 | PHYS 1402 |
| ARTS 2341 | ART 2303 | DANC 1245 | KIN 2226 | HIST 1301 | HIST 2313 | PHYS 1411 | ASTR 1401 |
| ARTS 2346 | ART 2371 | DANC 1301 | DANC 1301 | HIST 1302 | HIST 2314 | PHYS 1412 | ASTR 1402 |
| BCIS 1332 | CIS 2310 | DANC 2110 | DANC 2110 | HIST 2311 | HIST 2331 | PHYS 1415 | PSCI 1421 |
| BIOL 1411 | BIOL 1401 | DANC 2112 | DANC 2112 | HIST 2312 | HIST 2332 | PHYS 1417 | PSCI 1422 |
| BIOL 1413 | BIOL 1402 | DANC 2120 | DANC 2120 | HIST 2380 | HIST 2363 | PSYC 2301 | PSY 1310 |
| BIOL 2401 | BIOL 2403 | DANC 2141 | DANC 2141 | JAPN 1300 | JAPN 1351 | PSYC 2307 | PSY 2336 |
| BIOL 2402 | BIOL 2404 | DANC 2142 | DANC 2142 | JAPN 1310 | JAPN 1352 | RUSS 1311 | RUSS 1341 |
| BIOL 2428 | BIOL 2401 | DANC 2145 | DANC 2145 | JAPN 1311 | JAPN 1351 | SGNL 1301 | COMD 1310 |
| BUSI 1301 | MANA 1331 | DANC 2146 | DANC 2146 | JAPN 1312 | JAPN 1352 | SGNL 2301 | COMD 1320 |
| BUSI 1307 | FINA 1381 | DANC 2149 | DANC 2149 | MATH 1314 | MATH 1340 | SOCI 1301 | SOC 1313 |
| CHEM 1305 | CHEM 1300 | DANC 2150 | DANC 2150 | MATH 1316 | MATH 1356 | SOCI 1306 | SOC 1323 |
| CHEM 1411 | CHEM 1301 | DANC 2153 | DANC 2153 | MATH 1324 | MATH 1321 | SOCI 2301 | SOC 2333 |
| CHEM 1412 | CHEM 1302 | DANC 2154 | DANC 2154 | MATH 1325 | MATH 1322 | SOCI 2326 | SOC 2324 |
| CHEM 2123 | CHEM 2102 | DRAM 1310 | COMM 2312 | MATH 1335 | MATH 2306 | SOCW 2361 | SOCW 1313 |
| CHEM 2125 | CHEM 2103 | DRAM 1351 | COMM 1305 | MATH 1336 | MATH 2307 | SPAN 1311 | SPAN 1301 |
| CHEM 2323 | CHEM 2302 | DRAM 1352 | COMM 2306 | MATH 1342 | MATH 2330 | SPAN 1312 | SPAN 1302 |
| CHEM 2325 | CHEM 2303 | ECON 1301 | ECON 1301 | MATH 2312 | MATH 1357 | SPAN 2311 | SPAN 2307 |
| COMM 1335 | COMM 1315 | ECON 2301 | ECON 2301 | MATH 2318 | MATH 2345 | SPAN 2312 | SPAN 2308 |
| COSC 1300 | CSCI 1300 | ECON 2302 | ECON 2302 | MATH 2413 | MATH 1401 | SPAN 2313 | SPAN 1303 |
| COSC 1317 | CSCI 2325 | ENGL 1301 | ENG 1301 | MATH 2414 | MATH 1402 | SPAN 2315 | SPAN 1304 |
| COSC 1332 | CIS 2310 | ENGL 1302 | ENG 1302 | MATH 2415 | MATH 2401 | SPCH 1315 | COMM 1313 |
| COSC 2315 | CSCI 2333 | ENGL 2321 | ENG 2305 | MUSI 1163 | MUS 1111 | SPCH 1318 | COMM 2315 |
| COSC 2318 | CSCI 2380 | ENGL 2326 | ENG 2303 | MUSI 1188 | MUS 2122 | SPCH 1342 | COMD 2320 |
| CRIJ 1301 | CRIJ 1301 | ENGL 2331 | ENG 2307 | MUSI 1306 | MUS 1307 | SPCH 2341 | COMM 1310 |
| CRIJ 1306 | CRIJ 1306 | ENGR 1101 | ENGR 1101 | MUSI 1308 | MUS 2301 | | |
| CRIJ 1307 | CRIJ 1307 | ENGR 1204 | ENGR 1221 | MUSI 1309 | MUS 2302 | | |
| CRIJ 1310 | CRIJ 1310 | ENGR 2301 | MECE 2303 | MUSI 2166 | MUS 2124 | | |
| CRIJ 1313 | CRIJ 1313 | ENGR 2302 | MECE 2304 | MUSI 2168 | MUS 2123 | | |

Texas Common Course Numbering System

2002 • 2004

Texas Common Course Number Sequence

The following is an alphabetical listing of UT Pan American Course Numbers and their Texas Common Course Number equivalents:

| <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> | <i>UT Pan American Course Number</i> | <i>Texas Common Course Number</i> |
|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| ACC 2329 | ACCT 2301 | CRIJ 1301 | CRIJ 1301 | ENGR 1101 | ENGR 1101 | MECE 2304 | ENGR 2302 |
| ACC 2421 | ACCT 2401 | CRIJ 1306 | CRIJ 1306 | ENGR 1221 | ENGR 1204 | MUS 1111 | MUSI 1163 |
| ANTH 1323 | ANTH 2346 | CRIJ 1307 | CRIJ 1307 | FINA 1381 | BUSI 1307 | MUS 1307 | MUSI 1306 |
| ANTH 1342 | ANTH 2302 | CRIJ 1310 | CRIJ 1310 | FREN 1321 | FREN 1311 | MUS 2122 | MUSI 1188 |
| ART 1301 | ARTS 1301 | CRIJ 1313 | CRIJ 1313 | FREN 1322 | FREN 1312 | MUS 2123 | MUSI 2168 |
| ART 1311 | ARTS 1316 | CRIJ 2313 | CRIJ 2313 | FREN 2321 | FREN 2311 | MUS 2124 | MUSI 2166 |
| ART 1331 | ARTS 1311 | CRIJ 2314 | CRIJ 2314 | FREN 2322 | FREN 2312 | MUS 2301 | MUSI 1308 |
| ART 2303 | ARTS 2341 | CRIJ 2323 | CRIJ 2323 | GEOG 2313 | GEOG 1300 | MUS 2302 | MUSI 1309 |
| ART 2321 | ARTS 2316 | CRIJ 2326 | CRIJ 2326 | GEOG 2313 | GEOG 1300 | PHIL 1310 | PHIL 1301 |
| ART 2322 | ARTS 2317 | CRIJ 2328 | CRIJ 2328 | GEOG 2313 | GEOG 1300 | PHIL 1320 | PHIL 2303 |
| ART 2332 | ARTS 1312 | CSCI 1300 | COSC 1300 | GEOG 2313 | GEOG 1300 | PHIL 2330 | PHIL 2306 |
| ART 2341 | ARTS 2326 | CSCI 2325 | COSC 1317 | GEOG 2313 | GEOG 1300 | PHIL 2350 | PHIL 2307 |
| ART 2351 | ARTS 1303 | CSCI 2333 | COSC 2315 | GERM 1331 | GERM 1311 | PHYS 1401 | PHYS 1401 |
| ART 2352 | ARTS 1304 | CSCI 2380 | COSC 2318 | GERM 1332 | GERM 1312 | PHYS 1402 | PHYS 1402 |
| ART 2361 | ARTS 2333 | DANC 1141 | DANC 1141 | GERM 2331 | GERM 2311 | PHYS 2101 | PHYS 1101 |
| ART 2371 | ARTS 2346 | DANC 1142 | DANC 1142 | GERM 2332 | GERM 2312 | PHYS 2102 | PHYS 1102 |
| ASTR 1401 | PHYS 1411 | DANC 1145 | DANC 1145 | HIST 2313 | HIST 1301 | PHYS 2301 | PHYS 1301 |
| ASTR 1402 | PHYS 1412 | DANC 1146 | DANC 1146 | HIST 2314 | HIST 1302 | PHYS 2302 | PHYS 1302 |
| BIOL 1401 | BIOL 1411 | DANC 1149 | DANC 1149 | HIST 2331 | HIST 2311 | POLS 1333 | GOVT 2304 |
| BIOL 1402 | BIOL 1413 | DANC 1146 | DANC 1146 | HIST 2332 | HIST 2312 | POLS 2313 | GOVT 2301 |
| BIOL 2402 | BIOL 2428 | DANC 1153 | DANC 1153 | HLTH 1354 | PHED 1306 | POLS 2314 | GOVT 2302 |
| BIOL 2403 | BIOL 2401 | DANC 1154 | DANC 1154 | HLTH 2371 | PHED 1346 | PSCI 1421 | PHYS 1415 |
| BIOL 2404 | BIOL 2402 | DANC 1201 | DANC 1201 | JAPN 1351 | JAPN 1300 | PSCI 1422 | PHYS 1417 |
| CHEM 1300 | CHEM 1305 | DANC 1301 | DANC 1301 | JAPN 1351 | JAPN 1311 | PSY 1310 | PSYC 2301 |
| CHEM 1301 | CHEM 1411 | DANC 1301 | DANC 1301 | JAPN 1352 | JAPN 1310 | PSY 2336 | PSYC 2307 |
| CHEM 1302 | CHEM 1412 | DANC 2110 | DANC 2110 | JAPN 1352 | JAPN 1312 | RUSS 1341 | RUSS 1311 |
| CHEM 1302 | CHEM 1412 | DANC 2112 | DANC 2112 | JAPN 1352 | JAPN 1312 | SOC 1313 | SOCI 1301 |
| CHEM 2102 | CHEM 2123 | DANC 2120 | DANC 2120 | KIN 1351 | PHED 1301 | SOC 1323 | SOCI 1306 |
| CHEM 2103 | CHEM 2125 | DANC 2141 | DANC 2141 | KIN 2226 | DANC 1245 | SOC 2324 | SOCI 2326 |
| CHEM 2103 | CHEM 2125 | DANC 2142 | DANC 2142 | KIN 2236 | DANC 1241 | SOC 2333 | SOCI 2301 |
| CHEM 2302 | CHEM 2323 | DANC 2142 | DANC 2142 | KIN 2281 | PHED 2255 | SOCW 1313 | SOCW 2361 |
| CHEM 2302 | CHEM 2323 | DANC 2145 | DANC 2145 | MANA 1331 | BUSI 1301 | SPAN 1301 | SPAN 1311 |
| CHEM 2303 | CHEM 2325 | DANC 2146 | DANC 2146 | MATH 1321 | MATH 1324 | SPAN 1302 | SPAN 1312 |
| CIS 2310 | BCIS 1332 | DANC 2146 | DANC 2146 | MATH 1322 | MATH 1325 | SPAN 1303 | SPAN 2313 |
| CIS 2310 | COSC 1332 | DANC 2149 | DANC 2149 | MATH 1322 | MATH 1325 | SPAN 1304 | SPAN 2315 |
| COMD 1310 | SGNL 1301 | DANC 2150 | DANC 2150 | MATH 1322 | MATH 1325 | SPAN 2307 | SPAN 2311 |
| COMD 1320 | SGNL 2301 | DANC 2150 | DANC 2150 | MATH 1340 | MATH 1314 | SPAN 2308 | SPAN 2312 |
| COMD 2320 | SPCH 1342 | DANC 2153 | DANC 2153 | MATH 1340 | MATH 1314 | | |
| COMM 1305 | DRAM 1351 | DANC 2153 | DANC 2153 | MATH 1356 | MATH 1316 | | |
| COMM 1310 | SPCH 2341 | DANC 2154 | DANC 2154 | MATH 1357 | MATH 2312 | | |
| COMM 1313 | SPCH 1315 | ECON 1301 | ECON 1301 | MATH 1401 | MATH 2413 | | |
| COMM 1315 | COMM 1335 | ECON 2301 | ECON 2301 | MATH 1402 | MATH 2414 | | |
| COMM 2306 | DRAM 1352 | ECON 2302 | ECON 2302 | MATH 2306 | MATH 1335 | | |
| COMM 2312 | DRAM 1310 | ENG 1301 | ENGL 1301 | MATH 2307 | MATH 1336 | | |
| COMM 2315 | SPCH 1318 | ENG 1302 | ENGL 1302 | MATH 2330 | MATH 1342 | | |
| | | ENG 2303 | ENGL 2326 | MATH 2345 | MATH 2318 | | |
| | | ENG 2305 | ENGL 2321 | MATH 2401 | MATH 2415 | | |
| | | ENG 2307 | ENGL 2331 | MECE 2303 | ENGR 2301 | | |

◆ UT TeleCampus Courses

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

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

◆ International Student Admission

An applicant is considered an International Student if the applicant is not a citizen of the United States or a permanent resident alien. Applicants who have permanent resident alien status do not apply as International Students. All required documents must be on file in the Office of Admissions and Records 60 days prior to the beginning of the semester for late registration or by the published application deadline for ASSIST telephone Web registration.

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

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

2. Test of English as a Foreign Language (TOEFL) or other acceptable exam. Students from countries whose native language is not English will be expected to take the TOEFL. TOEFL scores must be sent directly from the Educational Testing Service. UT Pan American will not accept residual TOEFL exams taken at another institution. Students scoring below 500 (173 for computer based tests) on the TOEFL will be denied admission. Undergraduate students scoring between 500 and 550, but otherwise meeting department requirements, will be required to take prescribed courses in English.

3. Proof of sufficient funds to pay for one year of educational and living expenses. This may be proved

through financial documents and bank statements showing specific dollar amounts available.

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

5. Purchase of Mandatory Medical Insurance from the University. Medical insurance is required each semester of attendance with minimum coverage as follows: Major Medical \$50,000; Medical Evacuation \$10,000; Repatriation of Remains \$7,500. Medical insurance will be automatically billed at the beginning of each semester and must be maintained throughout your time at our University.

6. Texas Academic Skills Program (TASP) Exam: The TASP and QUICK TASP exams are offered locally. Enrollment in college-level coursework will not be permitted until TASP or QUICK TASP scores are on file with the Office of Admissions and Records. A minimum score is not required for admission; however, passing standards must be achieved prior to enrollment in upper-division coursework.

◆ Procedure After Admission - Issuance of I-20

Upon completion of the application process, successful applicants will be issued an I-20 by the International Student Advisor, who is the University's designated official to report the status of international students to the Immigration and Naturalization Service. Students then present the I-20 to the American Consulate or embassy in their home country to obtain a visa.

International students are required to report any change in status immediately to the International Student Advisor, located in the first floor of the University Center Building, 956/381-2922.

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

School on Visa: For initial admission, the student must attend the school specified on the visa. If the

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

Re-entry: A non-immigrant student may be readmitted to the University after a temporary absence of five months or less from the United States, if the student is otherwise admissible. The student may be readmitted by presenting a valid foreign passport, a valid visa and either a new Form I-20 A-B or a page 4 of the Form I-20 A-B (the I-20 ID Copy) properly endorsed for re-entry if the information on the I-20 form is current.

Transfer: A non-immigrant student is permitted to transfer to a different school provided the transfer procedure is followed. To transfer to a different school, the student should first notify the school being attended of the intent to transfer. Once accepted at the new university, the new international advisor will contact the advisor at the previous university to verify the student's status. Once verified and approved, the student should obtain a Form I-20 A-B from the new school. Transfer will be effected only if the student returns the Form I-20 A-B to the designated school official within 15 days of beginning attendance at the new school. The designated school official will then report the transfer to the Immigration and Naturalization Service.

Extension of Stay: If the student cannot complete the educational program after having been in student status for the anticipated length of the program plus a grace period in a single educational level, or for more than eight consecutive years, the student must apply for extension of stay. An application for extension of stay on a Form I-538 should be filed with the International Student Advisor at least 15 days but no more than 60 days before the expiration of the student's stay.

◆ Special Students

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

Special Students seeking professional improvement

are only required to have an official transcript showing the awarding of a bachelor's degree (or higher) sent from the awarding institution. Special students seeking teaching certification or a second bachelor's degree are required to have transcripts sent from all institutions attended. (A request for a second degree evaluation form must be completed at the Office of Admissions and Records for students seeking additional bachelor's degrees. For more information, see page 63.)

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

◆ Graduate Admission

Graduate admission is addressed in detail in the Graduate Catalog.

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

► Reservation of Work by Undergraduates for Graduate Credit

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

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

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

FISCAL POLICIES

► General Information

The cost of attending The University of Texas-Pan American is relatively low — approximately \$1,100.73 per semester for 12 hours of required tuition and fees for an undergraduate resident of Texas. The student financial aid program offering part-time employment, scholarships, grants and loans assists most students at UT Pan American in meeting the costs of attending college. (For more information on financial aid, see the Financial Assistance section on page 38 of this catalog.)

◆ Financial Responsibility

State universities cannot extend credit. Students are expected to meet financial obligations to the University within the designated time allowed. Registration fees are payable at the time of registration, and students are not entitled to enter a class or laboratory until all their fees have been paid. (*Exception:* See Payment by Installment on page 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.

◆ Residency Classification for Tuition Purposes

The Office of Admissions and Records is responsible for determining residence status of

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

- A resident of the state of Texas for tuition purposes is an individual who is either a U.S. citizen, Permanent Resident Alien who has lived and worked in the state of Texas for a period of 12 months prior to enrollment or is an undocumented student* (who has graduated from a Texas High School).

Students who do not complete their degree within 45 semester hours of their degree requirement will have to pay out-of-state tuition for the remainder of their classes. (Please refer to **45 Semester Hour Rule on the next page).

A non-resident for tuition purposes is a U.S. citizen or Permanent Resident Alien who has not lived and worked in the state of Texas for a period of 12 months prior to enrollment.

A foreign student is an alien who is not a permanent resident of the U.S. or has not been permitted by Congress to adopt the U.S. 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 non-resident or foreign students may qualify for resident tuition rates and other charges while continuing to be classified as a non-resident or a foreign student under the following exceptions:

- Students who receive academic competitive scholarships
- Teaching or research assistants
- Faculty employment
- Special types of Visas
- Military

INFORMATION ON RESIDENCY, RECLASSIFICATION, TUITION EXCEPTIONS AND WAIVERS is available at the Office of Admissions and Records, Room 108 of the Student Services Building,

No Image Available due to file size.

telephone 956/381-2732 or 956/381-2209. Students are required to sign an oath of residency as part of the application process. Residency for tuition purposes will be based on this oath and other information/ documents submitted by the student.

**Undocumented students must have 1) attended a Texas high school, 2) lived in Texas for three years, 3) enrolled in college after Fall 2001, 4) filed an affidavit intending to become a permanent resident.*

**** 45 Semester Hour Rule**

Pursuant to Section 61.0595 of the Texas Education Code, resident undergraduate students who, before the semester or other academic session begins, have attempted a number of semester credit hours for courses taken at any institution of higher education while classified as a resident student for tuition purposes that exceeds by at least 45 hours the number of semester credit hours required for completion of the degree program in which the student is enrolled, will be classified as non-resident for tuition purposes. For purposes of this regulation, an undergraduate student who is not enrolled in a degree program is considered to be enrolled in a degree program requiring a minimum of 120 semester credit hours.*

This regulation does not apply to semester credit hours earned by a student who initially enrolled as an undergraduate student in any institution of higher education before the 1999 fall semester.

“Attempted hours” refers to the number of hours for which the student was enrolled as of the official census date of each term, including courses that are dropped after the official census date, optional internship and repeated courses, with the following exceptions:

- semester credit hours earned by the student before receiving a baccalaureate degree that has previously been awarded to the student;
- semester credit hours earned by the student by examination or under any other procedure by which credit is earned without registering for a course for which tuition is charged;
- credit for a remedial education course, a technical course, a workforce education course funded according to contact hours, or another course that does not count toward a degree program at the institution; and
- semester hours earned by the student at a private institution or an out-of-state institution.

2002-2003 Tuition & Fee Table

Fall/Spring

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

Each Additional Hour, add:

| | | | |
|-------|-------|--------|--------|
| 71.50 | 91.50 | 289.50 | 309.50 |
|-------|-------|--------|--------|

Summer Sessions

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

Each Additional Hour, add:

| | | | |
|-------|-------|--------|--------|
| 78.25 | 98.25 | 296.25 | 316.25 |
|-------|-------|--------|--------|

2003-2004 Tuition & Fee Table

Fall/Spring

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

Each Additional Hour, add:

| | | | |
|-------|-------|--------|--------|
| 73.50 | 93.50 | 289.50 | 309.50 |
|-------|-------|--------|--------|

Summer Sessions

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

Each Additional Hour, add:

| | | | |
|-------|--------|--------|--------|
| 80.25 | 100.25 | 296.25 | 316.25 |
|-------|--------|--------|--------|

Tuition & Fee Disclosure

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

| Charge | Undergraduate | | Graduate | Comments |
|--------------------------------------|---------------|---------------|---------------|------------------------------|
| | 12 SCH | 15 SCH | 9 SCH | |
| <u>FY 2003</u> | | | | |
| Resident Tuition** | 840.00 | 1050.00 | 810.00 | \$70/SCH-UG, \$90/SCH-Grad |
| Non-Resident Tuition** | 3348.00 | 4185.00 | 2691.00 | \$279/SCH-UG, \$299/SCH-Grad |
| Plus: Registration/Matriculation Fee | 8.00 | 8.00 | 8.00 | \$8 per semester |
| Student Services Fee | 131.73 | 131.73 | 99.00 | \$11/SCH, \$131.73 max |
| International Education Fee | 1.00 | 1.00 | 1.00 | \$1 per semester |
| Information/Technology Fee | 81.00 | 101.25 | 60.75 | \$6.75/SCH, \$101.25 max |
| Library Technology Fee | 18.00 | 22.50 | 13.50 | \$1.50/SCH |
| Medical Service Fee | 15.00 | 15.00 | 15.00 | \$15.00 per semester |
| Student Union Fee | 30.00 | 30.00 | 30.00 | \$30.00 per semester |
| Subtotal - Required Fees | <u>284.73</u> | <u>309.48</u> | <u>227.25</u> | |
| Average Incidental Fees | * | * | * | |
| TOTAL TUITION & FEES-RESIDENT | 1124.73 | 1359.48 | 1037.25 | |
| TOTAL TUITION & FEES-NON-RESIDENT | 3632.73 | 4494.48 | 2918.25 | |
| <u>FY 2004</u> | | | | |
| Resident Tuition** | 864.00 | 1080.00 | 828.00 | \$72/SCH-UG, \$92/SCH-Grad |
| Non-Resident Tuition** | 3348.00 | 4185.00 | 2691.00 | \$279/SCH-UG, \$299/SCH-Grad |
| Plus: Registration/Matriculation Fee | 8.00 | 8.00 | 8.00 | \$8 per semester |
| Student Services Fee | 131.73 | 131.73 | 99.00 | \$11/SCH, \$131.73 max |
| International Education Fee | 1.00 | 1.00 | 1.00 | \$1 per semester |
| Information/Technology Fee | 81.00 | 101.25 | 60.75 | \$6.75/SCH, \$101.25 max |
| Library Technology Fee | 18.00 | 22.50 | 13.50 | \$1.50/SCH |
| Medical Service Fee | 15.00 | 15.00 | 15.00 | \$15.00 per semester |
| Student Union Fee | 30.00 | 30.00 | 30.00 | \$30.00 per semester |
| Subtotal - Required Fees | <u>284.73</u> | <u>309.48</u> | <u>227.25</u> | |
| Average Incidental Fees | * | * | * | |
| TOTAL TUITION & FEES-RESIDENT | 1148.73 | 1389.48 | 1055.25 | |
| TOTAL TUITION & FEES-NON-RESIDENT | 3632.73 | 4494.48 | 2918.25 | |

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

Visit our web site at <http://www.panam.edu>.

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

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

◆ Tuition and Mandatory Fees

Tuition, fees and charges are assessed to students based on semester credit hours, charge per semester, or specific services. The Texas Legislature, except for basic tuition, does not set the specific amount for any particular student fee. The student fees assessed are authorized by state statute; however, the University Administration and The University of Texas System Board of Regents make the specific fee amounts and the determination to increase fees. Texas Education Code, 54.504 — Incidental fees and 55.16 — Board Responsibility authorizes the governing board to fix and collect fees and charges.

Shown in the Fee Tables on pages 30-31 are the required tuition and fees charged each semester:*

▶ **Tuition/Tuition Designated charges** in 2002-2003 are \$70 per semester credit hour for resident undergraduate students and \$299 per semester credit hour for all non-resident students and in 2003-2004 \$72 and \$299, respectively.

▶ **Student Service Fee** supports student activities such as intramural and intercollegiate athletics, the campus newspaper, student accident insurance, University Program Board, drama, dance group, Student Government Association, University Center and other student services as determined by the Board of Regents. At the time of the printing of this catalog, the fee is charged at \$11 per semester credit hour up to a maximum of \$131.73 per regular semester or \$65.86 per summer session.

▶ **Student Union Fee** of \$30 per student per regular semester and \$15 per student per summer session will be assessed to provide operational and maintenance support of the Student Union Building.

▶ **Computer Access Fee** of \$6.75 per semester credit hour up to a \$101.25 maximum per regular semester and summer session is charged to fund costs incurred in providing access to and supervision of computer laboratories.

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

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

▶ **Library Technology Fee** of \$1.50 per semester credit hour is charged to enhance student access to library information via technology.

▶ **Medical Service Fee** of \$15 per regular semester or \$7.50 per summer session is charged to fund Student Health Services.

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

◆ Course Specific Fees

▶ **Biology Course Fee:** \$15-\$17 will be assessed on biology courses to defray the costs of supplies, chemicals and costs associated with replacement of equipment.

▶ **Computer Science Instruction Fee:** \$3-\$9 will be assessed on Computer Science courses to defray the cost of computer hardware, maintenance, lab monitors and software upgrades.

▶ **Dietetics Course Fee:** \$15 will be assessed on specific Dietetic courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.

▶ **Distance Education Fee:** \$25 per course will be assessed to students enrolled in distance learning courses offered through interactive video. Students enrolled in these courses may request fee waivers if special circumstances preclude them from using UTPA facilities, activities and/or student services on which a fee is based. Reference Distance Learning Tuition Waivers on page 46 for additional information. The exception will be those students enrolled in an Online Master Program. Students will be charged a common cost of \$580 set by UT System. This amount includes all mandatory fees and a distance-learning fee.

▶ **Educational Resource and Equipment Access Fee:** \$8 will be assessed to defray cost of field trips, supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific chemistry courses.

▶ **Engineering Student Fee:** \$50 per engineering/pre-engineering student per semester will be assessed to support the cost of software and other peripherals utilized in engineering courses.

▶ **Engineering Educational Technology Course Fee:** \$2-\$30 will be assessed to defray the cost of computer repairs, lab supplies, materials and equipment to students enrolled in specific engineering courses.

▶ **Instrument Users Fee:** \$10 will be assessed for Clinical Laboratory Science courses, \$25 to certain College of Education courses, and \$8-\$58 for specific music courses to support maintenance and equipment replacement costs.

▶ **Individual Instruction Fees:** For courses in art, communication and music that provide individual coaching or instruction, a fee of \$35 for a 1- or 2-hour course or \$60 for a 4-hour course may be charged.

Specific music courses are assessed \$2.

▶ **Kinesiology Activity Course Fees:** \$6 will be assessed for all 2-hour kinesiology activity courses. In the case of bowling, golf and scuba diving, there is an additional fee for the use of non-University facilities and equipment, which is paid directly to the provider of these facilities; the additional fees are subject to change at the provider's discretion.

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

▶ **Nursing Testing Fee:** The actual cost of testing will be assessed for standardized testing required by the Board of Nurse Examiners. This fee is non-refundable.

▶ **Occupational Therapy Course Fee:** \$30 will be assessed to defray costs of supplies, chemicals and costs associated with replacement of equipment to students enrolled in specific courses.

▶ **Technology Fee:** Students enrolled in the College of Business Administration or College of Science and Engineering will be assessed a fee to defray costs associated with technical support and software licensing. Fee rates will be:

— **College of Business Administration** —
undergraduates, \$10 per three semester credit hours with a \$30 maximum; MBA graduates, \$15 per three semester credit hours with a \$45 maximum; Ph.D. graduates, \$25 per three semester credit hours with a \$75 maximum.

— **College of Science and Engineering** —
undergraduates, \$3 per semester credit hour; graduates, \$15 per semester credit hour.

◆ Payment by Installment

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

Eligible students may elect one of the following two options during fall and spring registration:
Option A: Full payment on specified due date
Option B: Half payment on specified due date
One-fourth payment before the 6th class week
One-fourth payment before the 11th class week
Once an option has been selected, it may not be

changed; however, advance payments will be accepted.

Students electing to pay in accordance with Option B must personally sign a promissory note. A non-refundable Tuition Installment Incidental Charge of \$22.50 will be collected to defray the cost to the University of providing this delayed-payment service.

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

After the first three class days of the class week indicated above, late installments 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.

◆ Concurrent Enrollment Fees

Fees for students registering concurrently at two Texas public institutions of higher education are called Concurrent Enrollment Fees.

A student shall pay the full tuition charge to the first institution at which he or she is registered.

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

◆ Other Fees and Deposits

▶ **Auditing Fees:** \$20 non-refundable fee will be charged if the instructor permits anyone to audit the course.

▶ **Cafeteria Meal Tickets:** Cafeteria meals for students residing on campus are included in the Residence Hall contract. Other students may purchase a semester or summer session meal ticket. For more

information, see Student Housing on page 83.

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

▶ **Cooperative Pharmacy Program Application Fee:** \$60 will be assessed to defray the cost associated with the application process and travel of faculty between UT Austin and UT Pan American for admission committee meetings.

▶ **Course Drop Fee:** \$5 non-refundable fee is assessed to students dropping courses on the first day of classes and thereafter.

▶ **Dietetics Course Fee:** \$15 will be assessed on specific Dietetic courses to defray the cost of supplies, chemicals and costs associated with replacement of equipment.

▶ **Diploma Replacement Fee:** \$20 will be charged to students who request the replacement of a diploma for replacement and duplication costs.

▶ **Emergency Loan Processing Fee:** \$15 Non-refundable fee to defray administrative costs incurred in processing and collecting emergency loan payments. (See page 45 for more on Emergency Loans.)

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

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

▶ **Graduation Fee:** \$25 Non-refundable fee is assessed for undergraduate and graduate degrees. This fee is payable at the time the candidate presents the application for graduation to the Office of Admissions and Records. This fee is used to pay for processing the application for graduation, music, graduation speaker, postage, diplomas and other expenses associated with graduation. All students participating in the commencement ceremony are required to purchase the proper graduation regalia from the University Bookstore. No students will be permitted to participate without the proper regalia. Students wishing to transfer their application for graduation to another semester will be required to pay an additional \$10 fee for each time they transfer.

▶ **Health Insurance Fee:** This is mandatory insurance for international students holding non-immigrant visas and living in the United States. The fee is variable, to match the premium for approved UT System Student Insurance Plan. For more information, see page 81.

▶ **ID Card Replacement Fee:** \$7 non-refundable fee for a replacement ID card. Entering students are provided a free University Photo Identification Card. Students may pay the fee at the Office of Student Activities, University Center, Room 205, when they request a replacement ID Card.

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

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

▶ **Library Fees:** The fees are, for late book, \$0.10 per workday per book; lost book, \$20-\$86 to be determined by LC Call No. plus \$15 processing fee; damage fee, \$5 if repairable in-house, \$12 if rebinding needed by commercial binder; late reserve material, \$0.50 per hour; late special collections book, \$1 per day; late vertical file/Annual Report item, \$1 per day; graduate carrel locker, \$10 per year; photocopy fee, \$0.20 per page; Interlibrary loan, actual cost; late laptop computer fee, \$5; locker rental fee, \$.25; lost book returned without CD-ROM, cost of item plus \$15 processing fee; lost audio visual and computer materials, replacement cost plus \$15 processing fee. All library fees are paid at the Circulation Desk of the University Library.

▶ **New Student Fee:** This \$50 fee is charged to defray costs associated with new student advising and pre-registration and other activities.

▶ **Orientation Deposit Fee:** \$15 non-refundable deposit fee, which will be credited against the New Student Fee if the student enrolls, will be charged to defray the cost associated with providing students materials during Orientation.

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

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

▶ **Residence Hall Installment Charge:** See Student Housing on page 84.

▶ **Returned Check Charge:** \$15 non-refundable service charge will be assessed to a student for each bad check. The University may refuse to accept a check from a student who has previously given a bad check (insufficient funds, account closed, signature irregular, payment stopped, etc.).

▶ **Short-Term Loan Fees:** \$5 processing fee and a \$5

late payment fee. (For more information on short-term loans, see page 44.)

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

▶ **Student Liability Insurance:** All students enrolled in specific programs in the College of Health Sciences and Human Services, College of Education or College of Social & Behavioral Sciences must carry liability insurance. This is necessary in order for students to participate in clinical practicum activities associated with coursework. Fee assessed will reflect actual cost of insurance.

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

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

▶ **Teacher Alternative Certification Program Application Fee:** \$50 will be charged for processing applications for the Alternative Certification Program in the College of Education.

▶ **Teacher Certification Deficiency Plan Preparation Fee:** \$25 for enrolled students or \$40 for non-enrolled students will be charged to prepare a Teacher Certification Deficiency Plan in the College of Education.

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

▶ **TELESYS Account Fee:** Students are charged \$36 per year or \$17 per fall or spring semester and \$14 for both summer terms for 260 hours annually (pro-rated if paid by semester) of Internet access through a SLIP/PPP modem pool. The charges for 520 hours are \$72 per year or \$34 per fall or spring semester and \$28 for both summer terms. The charge for 1040 hours is \$108 per year or \$42 per fall or spring semester and \$36 for both summer terms. Internet access for more than 1040 hours annually is available at \$2 per hour. The fee is

assessed only for those students who make use of the service.

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

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

▶ **Tuition Installment Incidental Charge:** See Installment Payments on page 33.

▶ **University Center Recreation Room Late Payment Fee:** This fee is charged to defray the cost of processing late payments of recreation room charges. The fee is \$5 the first day plus \$1 per day after the first day to a maximum of \$10.

▶ **Vehicle Registration and Operation Permit (Parking Permit):** All students, whether full- or part-time, who operate a motor vehicle in the campus area must register the vehicle with the University Police Department. A decal to be placed on the vehicle indicating the permit number and class "C" parking privileges will be provided. The charge for the academic year beginning September 1 and ending August 31 is \$16 if paid during the fall semester, \$12 if paid during the spring semester, \$8 during the first summer session and \$4 during the second summer session. There are no refunds after the 12th class day (fourth class day in the summer). Vehicle operation regulations are available at the Office of Student Activities, the University Police Department, the University Library Lobby, the Office of Payments and Collections and on the VAX (university mainframe computer) at campus info.

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

◆ Refund of Registration Fees

To officially withdraw from the University or drop a course, a student must go to the Office of Admissions and Records. A student withdrawing officially and completely during a fall or spring semester will receive

a refund of total tuition and fees (excluding non-refundable fees) according to the following scale (Section 54.006, Texas Education Code):

- ▶ 100 percent before the first day of classes
- ▶ 80 percent during the first five class days
- ▶ 70 percent during the second five class days
- ▶ 50 percent during the third five class days
- ▶ 25 percent during the fourth five class days
- ▶ No refund after 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 Admissions and Records (within 30 days if the student did not receive some form of financial assistance through the University). Refunds for a student under the installment plan will be first applied to the student’s unpaid balance.

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

◆ Tuition Rebates

▶ Eligible Students

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

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

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

• Amount of Tuition Rebates

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

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

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

• Responsibilities of Institutions

1. Institutions shall notify first-time freshmen of the tuition rebate program. A notice in the official catalog shall be one acceptable form of notice.
2. If requested by potentially eligible students, public institutions of higher education are required to provide these students opportunities to enroll during each fall and spring semester in the equivalent of at least 12 semester credit hours that apply toward their degrees. Institutions are not required to provide students with the opportunity to enroll in specific courses or specific sections. The requirement may be met by allowing substitutions for required courses or by allowing concurrent enrollment in courses from another institution, so long as the courses are taught on the student's home campus and the student incurs no financial penalty.
3. Texas public universities are required to provide students with appropriate forms and instructions for requesting tuition reimbursement at the time that students apply for baccalaureate degrees.
4. Institutions are required to provide tuition rebates to students who apply for them within 60 days after graduation or provide the student with a statement explaining the reason the student is ineligible for the rebate.
5. Institutions are required to provide a dispute resolution process to resolve disputes related to local administration of the program.
6. Disputes related to lower division credit transfer should be resolved in accordance with Coordinating Board rules, Chapter 5, Section 5.393 of this title (relating to transfer of lower division course credit).
7. Institutions may adopt rules and regulations for administering the program.

• Responsibilities of Students

1. Students desiring to qualify for tuition rebates are responsible for complying with all University rules

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and regulations related to administration of the program.

2. Students desiring to qualify for tuition rebates are solely responsible for enrolling only in courses that will qualify them for the rebates.
3. A student who has transferred from another institution of higher education is responsible for providing to the institution awarding the degree official transcripts from all institutions attended by the student.
4. Students must apply for rebates prior to receiving their baccalaureate degrees on forms provided by the institution admission office and must keep the institution apprised of their address for at least 60 days after their graduation date.

◆ Refund Policy

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

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

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

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

FINANCIAL ASSISTANCE

► General Information

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

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

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

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

Student Financial Services

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

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

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

Financial Aid Voice Response System
956/381-3060
TDD/Telecommunication Device for the Deaf
956/381-3654
Hours: 8 a.m. to 5 p.m., Monday-Friday

Federal Student Aid Information Center

1/800/4-FED-AID (1/800/433-3243)
Hours: 8 a.m. to 12 midnight. (Eastern Time)

To find out if his/her federal student financial aid application has been processed, or for a copy of his/her Student Aid Report (SAR), a student should call 1-800-433-3243 or visit the web site www.ed.gov/studentaid

◆ Application Process

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

An applicant will qualify for financial assistance if he or she meets the following criteria:

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

How to file a FAFSA:

- Attend an electronic FAFSA Processing Workshop to transmit your application electronically at the UTPA Student Financial Services Office.
 - File your FAFSA over the Internet at <http://www.fafsa.ed.gov>; request a PIN at: www.pin.ed.gov (This is your electronic signature for FAFSA on the web.)
 - Mail your completed FAFSA using the self-addressed envelope included with the application.
- All required documents must be submitted before any aid can be awarded.

003599 UTPA School Code for FAFSA

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

When the student applies and receives a Student Aid Report (SAR), he or she should contact Student Financial Services, Student Services Building, Room 186, to receive instructions on what steps to follow to

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

◆ Application Deadlines

To ensure processing before registration, the recommended priority dates for submission of the Free Application for Federal Student Aid "FAFSA" are as follows:

Fall awards: February 28

Spring awards: September 15

Summer awards: February 15

Final deadline to apply and receive financial aid:
June 30

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

• Benefits of Applying Early —

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

Note: For students transferring in less than 60 hours, the Student Financial Services Office is required to monitor the completion of a high school diploma or its equivalent by requesting that such documentation be on file or turned in to the Office of Admissions and Records before awarding any financial assistance.

◆ Satisfactory Academic Progress Policy

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

◆ Policy

Campus-based and Pell Grant financial assistance may be provided for a maximum of 12 semesters to

undergraduate students. Campus-based assistance at the Master's degree level (teaching assistantships, fellowships, etc.) may be provided for a maximum of four semesters to full-time graduate students. (A separate policy for graduate programs may be obtained at Student Financial Services.)

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

• Grade Point Average Requirement

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

• Increments

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

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

The requirement for transfer undergraduate students will be adjusted to the appropriate increment based upon the number of accepted transfer hours; i.e., if 40 undergraduate hours are accepted in transfer, the undergraduate student will be in the second year of academic progress.

• Maximum Time Frame

Maximum Time Frame is measured at the end of each fall and spring semester.

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

• Undergraduate Student

| Academic Progress Period | Total Cumulative Hours Earned | Incremental Hours to be completed |
|--------------------------|-------------------------------|-----------------------------------|
| 1st yr-2 semesters | 20 | 20 |
| 2nd yr-4 semesters | 40 | 20 |
| 3rd yr-6 semesters | 60 | 20 |
| 4th yr-8 semesters | 84 | 24 |
| 5th yr-10 semesters | 108 | 24 |
| 6th yr-12 semesters | 132 | 24 |

Maximum Time Frame (years)*

Full-time: 6 years Half-time: 12 years

• Special Student

| Academic Progress Period | Total Cumulative Hours Earned | Incremental Hours to be Completed |
|--------------------------|-------------------------------|-----------------------------------|
| 1st yr-2 semesters | 18 | 18 |

Maximum Time Frame (years)*

Full-time: 2 Half-time: 4

* Any combination of enrollment status is calculated proportionately not to exceed the maximum number of years as stated for each career level (undergraduate, special). Summer school will not be considered a portion of the semester limits.

Students who have already received a baccalaureate degree but are not in a graduate program will be treated as undergraduate students for financial aid purposes.

Students seeking a second undergraduate degree will be evaluated on the same satisfactory academic progress criterion as the undergraduate students.

Students who hold a first baccalaureate or have met the requirements for the baccalaureate are not eligible for a Federal Pell Grant or Federal Supplemental Opportunity Grant to continue their education.

◆ Enrollment Status

Enrollment status will be determined as of the 12th class day of each term in accordance with the definition in this catalog.

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

Summer school enrollment at UT Pan American may be used as a means to make up credit hour deficiencies. Summer School enrollment elsewhere may be used as a means to clear deficiencies as long as the deficiency occurred prior to the summer enrollment. Repeat courses for which a grade was received and remedial courses not completed at UT Pan American will not clear a deficiency.

When UT Pan American has a consortium agreement with a participating institution, the student must meet the satisfactory academic progress policy of the institution that is awarding aid.

Students enrolled concurrently at South Texas

Community College and UT Pan American in the same semester and who are receiving Title IV assistance from UT Pan American for the concurrently enrolled term will have the hours from STCC included in the satisfactory academic progress calculations for increments and maximum time frame. The exception will be for remedial classes that do not transfer for a grade. Repeat classes for which a passing grade has been received are also an exception. Classes that come under this exception rule do not clear deficiencies or count in the maximum time frame. Eligible students are identified each term.

Students who opt for the Academic Fresh Start policy (see page 13) or qualify under the exclusion of "F" grades seven or more years old may have a recalculation of financial aid increments and maximum time frame. The recalculation will be based on University policy governing these two methods of excluding academic failures.

◆ Financial Aid Probation

Students that are placed under academic probation by the Office of Admissions and Records will automatically be on Financial Aid Probation. Although a student on Financial Aid Probation is still eligible to receive financial aid, the student must ensure that after the spring semester they meet Satisfactory Academic Progress Policy Requirements (no deficient hours). If, after the spring semester, the student remains deficient in the number of increment hours required, he/she will be on probationary status during the summer sessions. Summer school enrollment may be used as a means to make up hours deficiencies.

◆ Financial Aid Suspension

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

• Appeals Process

Students may appeal Financial Aid Suspension status due to unusual circumstances such as illness, death in the family, accidents or other mitigating circumstances. An appeal form with documentation relating to unusual circumstance must be submitted to Student Financial Services prior to the intended period of enrollment. Check with SFS Office for availability of

forms and deadlines, and staff will review the appeal. All decisions made by the committee are final.

◆ 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 the Permian Basin
 The University of Texas at Tyler
 The University of Texas Health Science Center at San Antonio
 The University of Texas Health Science Center Houston
 The University of Texas Southwestern Medical Center at Dallas
 The University of Texas Medical Branch at Galveston
 The University of Texas M.D. Anderson Cancer Center
 The University of Texas at Austin
 The University of Texas at Dallas
 The University of Texas at San Antonio

Home: The U.T. component at which a student is fully admitted and enrolled in a degree or certificate program. The Home Institution will award the student's degree or certificate.

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

A student wishing to enroll in a distance-learning course must first complete an "Inter-Institutional Distance Education Admission and Registration" (IDEAR) Form. The form is available at the Office of Admissions and Records or can be obtained at the following web site:

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

For additional questions, please contact the Department of Student Financial Services at 956/381-2501.

▶ 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 mailed by the student to the processing center or may be transmitted electronically via computer to the central processor if the student attends a Financial Aid Express workshop. Student Financial Services determines the amount of the grant after the U.S. Department of Education has calculated family contribution. Applications are available at Student Financial Services. Pell Grants are not available to students who have already received a bachelor's degree.

Federal Supplemental Educational Opportunity Grant (FSEOG): The Federal Government established this program for students with high financial need. Graduate students, special students or others 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 (TPEG) is a campus-based grant for undergraduate and graduate students with financial need. Unlike the Federal Pell Grant, there is no guarantee that a student is eligible to receive a TPEG; awards from this program are based on the availability of funds. If a student is awarded a TPEG at UT Pan American, his/her account will be credited.

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

- ▶ Be a Texas Resident
- ▶ Complete the FAFSA and demonstrate financial need
- ▶ Complete the Recommended, Advanced or Distinguished Curriculum in high school or receive an Associate degree on or after May 2001
- ▶ Enroll at least 3/4 time (9 hours or more) in an

Undergraduate program

- ▶ Not have been convicted of a felony or a crime involving a controlled substance.

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

◆ Federal Work-Study Program (FWS)

The Federal Work-Study (FWS) 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.

• State Waivers

◆ Early High School Graduation Scholarship Program

This exemption program provides a \$1000 exemption from the payment of tuition. Students may be able to qualify if they completed the requirements of high school graduation (grades 9-12) in no more than 36 continuous months (three years); the student must have attended a public high school in Texas only and be a Texas resident for this program.

To qualify for this program the student's high school should send to the Coordinating Board a certification letter confirming the student's eligibility for early graduation. After the Coordinating Board receives the letter of certification, a letter certifying the student's eligibility for the exemption will be sent to the appropriate university. A copy of the letter will also be sent to the student and to the student's high school counselor.

◆ Foster Care Program

Exemption of tuition and fees for persons who were in foster care or other residential care with the Department of Protective and Regulatory Services on or after the day preceding their 18th birthday; the day of the student's 14th birthday, if the student was also eligible for adoption on or after that day; or the day the student graduated from high school or received GED. In order to take advantage of this exemption the student must enroll as an undergraduate no later than three years of the earliest of the following dates: after receiving a high school diploma or GED, or being discharged from foster care, or the student's 21st birthday. Student must provide the Student Financial Services Department with proof of having been in foster care.

◆ Aid to Families with Dependent Children (TANF) Program

To be eligible under this program, a student must be a dependent child on TANF for at least six (6) months of their senior year of high school. Student must also be a Texas resident and have attended high school in Texas only. Student must enroll as an undergraduate student at a public college or university within 24 months of graduation from high school.

A student eligible for this program will be exempt from tuition and fees for two years after their high school graduation. This is an entitlement for eligible students.

To qualify for this exemption, the student must acquire a letter from the Texas Department of Human Services indicating the student received TANF benefits. The letter must be turned in to Student Financial Services.

◆ Children of Disabled Firemen and Peace Officers Program

Tuition and some fees are exempted for any student whose parent is an eligible employee and suffered an injury resulting in death or disability sustained in the line of duty.

Eligible employees must be full paid or volunteer firemen, full paid municipal, county or state peace officers, custodial employees of the Texas Department of Corrections, or game wardens, who have a child under 21 years of age.

In order to apply for this exemption, the student must submit a letter of certification to the Texas Higher Education Coordinating Board. The

Coordinating Board will then send a letter certifying the student's eligibility to the appropriate university.

◆ Valedictorian Tuition Waiver

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

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

◆ Certified Educational Aide Exemption

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

To qualify, a student must:

- a. Be a school employee serving in any capacity
- b. Have worked as an educational aide in a Texas public school for at least one year during the five years preceding the semester for which the exemption is received (includes substitutes)
- c. Be enrolled in classes leading to teacher certification
- d. Show financial need, be a Texas resident and meet the academic progress requirements of Student Financial Services.

In order to determine the student's financial need, a student must either apply for financial aid by filing the Free Application for Federal Student Aid (FAFSA) through the college to be attended or by submitting a current income tax return.

Applications for the Educational Aide Exemption program are available through the school district, university and college financial aid offices, or the Texas Higher Education Coordinating Board at 1-800-242-3062, extension 6457.

At UTPA, eligible students for the exemption are awarded after the 12th class day of the fall and spring semester and after the 4th class day of each summer session.

◆ Fifth Year Accounting Student Scholarship

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

The program can provide up to \$3,000 (lifetime maximum) to eligible students to assist with the cost of completing the educational requirements to sit for the CPA exam in Texas.

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Individuals who may apply must:

- ▶ Show financial need (financial aid file must be complete to determine the need);
- ▶ Be enrolled at least half-time;
- ▶ Have completed at least 120 credit hours (including at least 15 hours of accounting);
- ▶ Make satisfactory academic progress according to the Student Financial Services Office;
- ▶ Have a GPA of at least 2.5; and
- ▶ Be willing to sign a written statement confirming their intent to take the uniform Certified Public Accountant (CPA) examination in Texas for the purpose of becoming a CPA.

Applications are available in mid June at the Student Financial Services office. Funding is limited, so only complete and eligible applications will be considered.

◆ Professional Nursing Scholarship Program

The purpose of this program is to provide financial assistance to students who are planning on becoming professional nurses. No individual award may be for more than the student's financial need. The maximum award is \$3,000. Some, but not all the funds are targeted to students from rural communities, while others are targeted to graduate students in nursing. To apply, the student must:

- ▶ Be a Texas resident;
- ▶ Show financial need (financial aid file must be complete to show basis of need);
- ▶ Register for the Selective Service or be exempt from this requirement;
- ▶ Enroll in the classes leading to Licensure as a Professional Nurse and;
- ▶ Must be enrolled at least halftime.

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

◆ Texas National Guard Tuition Assistance Program

The purpose of this program is to provide an exemption from the payment of tuition to eligible individuals in the Texas National Guard, Texas Air Guard, or in the State Guard attending a public or private institution of higher education in the state of Texas.

Individuals may receive tuition assistance for up to 12 semester hours, but it will not exceed 12 semester hours per individual for any given semester.

Funding does not cover fees. To apply, individuals must:

- ▶ Be Texas residents;
- ▶ Register for the Selective Service or be exempt from this requirement and;
- ▶ Be an active drilling member of the Texas National Guard, Texas Air Guard or the State Guard.

Students eligible for the exemption will be reimbursed after the 12th class day of the semester.

Students interested in applying must contact the unit commander of his/her

National Guard, Air Guard or State Guard unit or the Education Officer, State Adjutant General's Office;

P.O. Box 5218/AGTX-PAE, Austin TX 78763-5218
or at 512/465-5001.

The Education Office will provide instructions. You can also visit the Texas National Guard web site at:
http://www.agd.state.tx.us/education_office/state_tuition.htm

◆ Senior Citizen Waiver

Senior citizens may be exempted from payment of tuition for up to six credit hours per term on a space-available basis. A senior citizen is defined as a student of age 65 or older. For more information, contact the Student Financial Services Office.

For additional information on any of these programs you may contact the

UTPA Student Financial Services Office
or visit the Texas Higher Education Coordinating Board web site at:
<http://www.collegefortexans.com/>

◆ Loans

Federal Perkins Loan: Recognizing that loans are an increasingly important aspect of financing an

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

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

Federal Family Educational Loan Program (FFELP):

The FFEL Program offers subsidized and unsubsidized Stafford Loans. The first step in the application process is the completion of the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA. After the student's FAFSA is processed, Student Financial Services will review the results and advise the student as to his or her loan eligibility. The student also must attend a pre-loan counseling session and complete the Federal Stafford Loan Application and Promissory Note, available from Student Financial Services or a lender. After the student completes the student section of the application, Student Financial Services will complete its portion, certifying that the student is or has been accepted for enrollment during the period the application covers and recommending the amount of loan the student would need to meet his or her educational costs. A student may be eligible to borrow \$2,625 as a freshman, \$3,500 during the sophomore year, \$5,500 each year during the junior and senior years, and \$8,500 a year as a graduate student. The lender will send the loan proceeds to the University in at least two payments by (EFT) electronic funds transfer, which is credited to the student's university account. The school will mail any loan-credited balance to the student within 3-5 days. No single disbursement may exceed one half of the loan amount.

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

Emergency Tuition and Fee Loans: Emergency loans are available to UT Pan American students needing assistance in paying registration costs. Emergency loans must be paid back to the University during the same semester in which they are borrowed. An applicant will be required to pay a \$15 processing fee per semester. Students may borrow up to the amount of tuition and fees. Applications and information about the Emergency Loan program are available at the Student Loan Collections Office in Room 214 of the Marialice Shary Shivers Administration Building.

◆ Scholarships

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

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

For a complete list of scholarships and application requirements, request a UT Pan American Scholarship Guide available at Student Financial Services or online at www.panam.edu/scholarships. Criteria, and who to contact for an application, are provided for each scholarship and because the scholarship process is very competitive, students are encouraged to apply early and to make sure their applications are complete when submitted. The deadline to apply for most scholarships is Dec. 1.

University Scholars Program: Entering freshmen from Cameron, Hidalgo, Brooks, Duval, Jim Hogg, Jim Wells, Kenedy, Kleberg, Nueces, Webb, Zapata, Starr and Willacy counties of Texas who have earned Advanced Placement credit through AP examinations and/or Concurrent Enrollment credit at The University of Texas-Pan American may qualify for four-year tuition and fee scholarship at the University through the University Scholars Distinguished Achievement Scholarship program. To qualify to enter UT Pan American as a University Scholar you must meet one of the following requirements while in High school:

- ▶ Have a 'B' average in 12 hours of AP or CE credit (from four separate exams or courses in different subject areas) or
- ▶ Have a 'B' average in six hours of AP or CE credit (from two separate exams or courses in different subject areas) AND have a minimum ACT composite score of 24 (with at least 19 in English and 19 in Math or an SAT score of 1110 (with at least 500 verbal and 500 math).

For more information, contact the Scholarship Office at the UTPA Department of Student Financial Services or a high school counselor.

• How to Apply

There is no formal application for the University Scholars Scholarship. Once we receive the required AP scores and/or UTPA concurrent enrollment grades you will automatically qualify once grades/scores are confirmed. However, it will be helpful for you to do the following as early as possible during your senior year in high school:

- ▶ Submit an Entering Freshmen Application for Admission to The University of Texas-Pan American, request your AP scores to be sent to UTPA and complete all regular admission requirements. Once we receive the required AP scores (usually in July), we will confirm your scholarship.

- ▶ Although there is no formal application for this scholarship, we ask that — in a separate letter attached to your Application for Admission — you identify yourself as a prospective candidate for the University Scholars Scholarship.

** (Optional) In order to help us package other scholarships and financial assistance that you may be eligible to receive, please file a UTPA Scholarship Application as well as the FAFSA application (Free Application for Federal Student Aid).*

• Outside Scholarships

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

It is also the student's responsibility to notify the Student Financial Services Department of any special instructions or billing information regarding external

scholarships. All checks for these awards should be made payable to The University of Texas-Pan American and sent to:

UT Pan American

Student Financial Services Office, SS 186
Attn: Scholarship Coordinator
1201 W. University Drive
Edinburg TX 78541-2999

No credit will be entered on your 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.

At the undergraduate level, the Department of Chemistry awards Robert A. Welch Foundation Fellowships to deserving junior and senior students. The awards, both full and half fellowships, are based upon departmental research programs and the student's background in chemical science. The student must be majoring in Chemistry or Biology with a Chemistry minor.

◆ **Tuition Waivers**

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

Distance Learning Fee Waiver: Students enrolled in distance learning courses may apply for a fee waiver. To be eligible, a student must prove special circumstances exist that preclude the student from utilizing activities, facilities and/or services on which a fee is based. Submit a written request with supporting documentation (as needed) to:

Office of the Vice President for Business Affairs

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

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

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

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

Office of the Vice President for Business Affairs

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

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

Mexican Nationals: Citizens of Mexico may apply for a Non-Resident 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. For information about this program, contact the International Student advisor at the Student Services Building in Room 618, 956/381-2922.

Good Neighbor Scholarship: A limited number of Good Neighbor Scholarships, which provide exemption of tuition, are available to native-born citizens and residents from nations of the Western Hemisphere other than the United States and Cuba. Information is available from the International Student advisor at the Student Services Building in Room 618, 956/381-2922.

Hazlewood Act for Veterans: The Hazlewood Act (Section 54.203 of the Texas Education Code) Student Eligibility: The purpose of the Hazlewood Act is to encourage U.S. veterans to pursue higher education at federal and state expense. This act exempts the veterans of World War I, World War II, the Korean War and the Vietnam Conflict, the Persian Gulf War or any future national emergency declared in accordance with federal law, who have no remaining Veterans Administration

educational benefits, from the payment of tuition, laboratory fees, building fees, and individual instruction fees. It does not exempt such veterans from the payment of student service fees or other fees and deposits. In addition to veterans, children of the members of the Armed Forces who were killed in action or died while in the service are also exempted from the payment of tuition. All undergraduate students must apply for the Free Application for Federal Student Aid (FAFSA) to determine Pell eligibility and must be in default of any federal student loan.

Tuition and Fee Exemption for Children of Veterans of the Armed Forces: Children of members of the armed forces who were killed in action, who die or died while in service, who are missing in action or whose death is documented to be directly caused by illness or injury connected with service in the armed forces of the United States, are entitled to an exemption from payment of all dues, fees, and charges (excluding only student property deposits, student service fees, and lodging, board or clothing) that would otherwise be paid to attend UT Pan American.

Tuition and Fee Exemption for Children of Disabled Firemen and Peace Officers: Children of firefighters or peace officers who were disabled or killed in the line of duty may be eligible for an exemption from tuition. Information is available at Student Financial Services.

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

Certified Educational Aides Exemption Program: Students who have been employed for at least one year in a public school as a certified teacher's aide in a position requiring classroom interaction with students may be eligible for a waiver of tuition and mandatory fees or a portion thereof based on need. Information is available at Student Financial Services, Student Services Building, Room 186, telephone 956/381-2501.

Tuition Waiver for Senior Citizens: A tuition waiver for senior citizens 65 years of age or older, is available at UT Pan American. For more information, contact Student Financial Services, Student Services Building, Room 186, telephone 956/381-2501.

◆ **Early High School Graduation Scholarship Program**

This exemption program provides a \$1,000 exemption from the payment of tuition. Students may

be able to qualify if they completed the requirements of high school graduation (grades 9-12) in no more than 36 continuous months (three years); the student must have attended a public high school in Texas only and be a Texas resident for this program.

To qualify for this program the student's high school should send to the Coordinating Board a certification letter confirming the student's eligibility for early graduation. After the Coordinating Board receives the letter of certification, a letter certifying the student's eligibility for the exemption will be sent to the appropriate university. A copy of the letter will also be sent to the student and to the student's high school counselor.

◆ **Aid to Families with Dependent Children (TANF) Program**

To be eligible for this program, student must be a dependent child on TANF for at least six (6) months of their senior year of high school. Student must also be a Texas resident and have attended high school in Texas only. Student must enroll as an undergraduate student at a public college or university within 24 months of graduation from high school.

A student eligible for this program will be exempt from tuition and fees for two years after their high school graduation. This is an entitlement for eligible students.

To qualify for this exemption, the student must acquire a letter from the Texas Department of Human Services indicating the student received TANF benefits. The letter must be sent to the Student Financial Services Office.

◆ **Valedictorian Tuition Waiver**

Valedictorian of each accredited Texas high school is exempted from tuition during the first two regular semesters following high school graduation. In order to qualify for this exemption, the student should submit a copy of their certificate to the Student Financial Services Office, confirming that the student was the highest-ranking student of his/her high school.

◆ **Texas National Guard Tuition Assistance Program**

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

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Individuals may receive tuition assistance for up to 12 semester hours, but it will not exceed 12 semester hours per individual for any given semester. Funding does not cover fees. To qualify, individuals must:

- ▶ Be Texas residents;
- ▶ Register for the Selective Service or be exempt from this requirement; and
- ▶ Be active, drilling member of the Texas National Guard, Texas Air Guard or the State Guard

Students eligible for the exemption will be reimbursed after the 12th class day of the semester.

Students interested in applying must contact the unit commander of his/her

**National Guard, Air Guard or State Guard unit
or the Education Officer
State Adjutant General's Office**

PO Box 5218/AGTX-PAE,
Austin TX 78763-5218
or at 512/465-5001

The Education Office will provide instructions. You can also visit the Texas National Guard web site at

**[http://www.agd.state.tx.us/education_office/
state_tuition.htm](http://www.agd.state.tx.us/education_office/state_tuition.htm)**

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 |
| Special Students | Undergraduate students who hold a bachelor's degree from an accredited institution. |
| Graduate Students | Students who have earned a bachelor's degree and have been accepted to UT Pan American for graduate study. |
| Special Graduates | Students who have earned a graduate degree and are continuing in another graduate program. |
| Doctoral Students | Students who have been accepted to a doctoral program. |

◆ Course Information

The information concerning the courses offered by each department (or college for interdisciplinary courses) will be found in the Course Descriptions section of this catalog. The listing for each course includes the following information:

◆ Course Number, Title and Contact Hours

If the course has defined weekly contact hours, these will be shown in brackets [] following the course title, with lecture hours first, laboratory hours second, and clinical hours, if any, third. These contact hours are for the fall and spring semesters. Summer weekly contact hours will be adjusted according to the length of the summer session. (See page 351 in the Glossary for more information and an example.)

◆ Common Course Number

If the course is generally equivalent to other lower-division courses taught at universities and community colleges within the state, the Texas Common Course

Number is shown for informational purposes. See page 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 students' best interest, as well as their responsibility, to determine by other means (such as semester course schedules) when courses required for their degree programs are being offered. Program requirements will not be waived as a result of the course not being offered as indicated in the course frequency information provided in this catalog.

Courses not normally offered on a regular schedule are identified "As Scheduled."

◆ Course Description

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

◆ Course Numbers

Courses are numbered to show both the collegiate level at which they are offered and the hour value of the course. The first digit shows the level, and the second digit shows the credit hours. The last two digits are departmental designations. For example, Spanish 1301 shows that the course is taught at the freshman level and carries 3 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 masters-level courses.

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

◆ Grading Policies

• Grading System

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

| | | |
|----|------------------------|-------------------------------------------------------------------------------------------------------------------|
| A | Excellent | (4 grade points per hour) |
| B | Good | (3 grade points per hour) |
| C | Satisfactory | (2 grade points per hour) |
| D | Below Average | (1 grade point per hour - may not be assigned in graduate classes) |
| F | Failure | (0 grade points per hour) |
| P | Passing | (not considered in calculating grade points or attempted hours) |
| NP | No Pass | (not considered in calculating grade points or attempted hours) |
| IP | In Progress | (not considered in calculating grade points or attempted hours; for remedial courses only) |
| I | Incomplete | (not considered in calculating grade points or attempted hours) |
| CR | Credit | (not considered in calculating grade points or attempted hours; however, hours are counted in total earned hours) |
| NC | No Credit | (not considered in calculating grade points or attempted hours) |
| DR | Course Dropped | (not considered in calculating grade points or attempted hours) |
| DP | Drop Passing | (not considered in calculating grade points or attempted hours) |
| DF | Drop Failing | (considered as an "F" for calculating the grade point average) |
| W | Withdrawal from School | (not considered in calculating grade points or attempted hours) |
| WP | Withdrawal Passing | (not considered in calculating grade points or attempted hours) |
| WF | Withdrawal Failing | (considered as an "F" for calculating the grade point average) |

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◆ Calculation of Undergraduate Grade Point Average (GPA)

The grade point average (GPA) is computed by dividing the total grade points earned by the total hours attempted. The Cumulative Grade Point Average is calculated using all coursework (excluding repeated courses) attempted. The current semester grade point average is calculated using only coursework attempted within a specific semester.

Some courses may be repeated by the student to improve his or her GPA. (For more information, see the section on Repeated Courses on page 51.)

All failing grades received in undergraduate courses more than seven years old shall be excluded from the grade point average computation, except in determining Graduate Admission GPA. (See the Graduate Catalog for additional information.) The failing grades will remain on the student's transcript, although they will not be used to compute the GPA.

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 more than seven years old, incomplete grades and credit (CR) grades are not included in attempted undergraduate hours (with the exception of the calculation of graduate admission GPA).

Grade Points: Grade points are assigned based on the grade received multiplied by the number of credit hours. For example, a grade of "A" is equivalent to 4 grade points. If the course was offered for 3 credit hours, the grade points would be calculated as follows: 4 (for grade of A) X 3 (hours) = 12 grade points. Grade points are assigned as follows:

| Grade | Grade Points |
|-------|--------------|
| A | 4 pts. |
| B | 3 pts. |
| C | 2 pts. |
| D | 1 pt. |
| F | 0 pts. |

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

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

Total attempted hours = 15
Total grade points = 26

To calculate the GPA for this example, divide the grade points by the attempted hours as follows:
26 divided by 15 = 1.73

◆ Incomplete Grades

A grade of "I" may be given when a student has not completed the required work of a course within the allotted time of a regular semester or summer session if the instructor determines that the reasons for the work being incomplete are valid and that the grade of "I" is justified. A grade of "I" must be changed within one regular (fall or spring) semester from the date received, unless an extension is requested by the student's instructor. If a Change of Grade Form is not received from the instructor upon completion of the one regular semester, the grade will automatically be recorded as an "F" on the student's official transcripts.

Improper Use of the "I" Grade: A student must not be given an "I" grade to permit the student time to prepare coursework in addition to that assigned the entire class, time to repeat the entire course or the

opportunity to raise a grade. "Incomplete" grades are not issued for student or faculty convenience; they may be issued for the reasons stated in the paragraph above only in the case of compelling, non-academic circumstances beyond the student's control.

◆ Credit by Examination

Students may receive credit by examination for some course requirements. For more information, see page 64.

◆ Quality of Work

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

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

◆ Repeated Courses

When an undergraduate course is repeated (and the grade received is A, B, C, CR, D, DF, F, P or WF), only the last grade and hours attempted are used to calculate the grade point average. However, repeated courses will remain on the student's academic record (transcript).

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

◆ Grade Change

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

◆ 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 grade point average 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 in good academic standing. Students may obtain their grades using ASSIST via telephone (956/381-3020), web (assist.panam.edu) and KIOSK services. Students requiring a paper copy of their grades may request a transcript to be mailed to their home address on file with the Office of Admissions and Records using ASSIST via telephone, web and KIOSK services.

► Registration Procedures

◆ Registration

Students must officially register through the proper registration procedure to be eligible to receive credit for a course. Students will not be added to the official class rolls or grade sheets after the registration periods have ended. Per The Texas Higher Education Coordinating Board Rules and Regulations, students may not enroll in a course after the official census date (Ch. 9, Subchapter B, Sec. 9.31a).

◆ ASSIST Registration (telephone or web)

Registration by a touch-tone telephone and on the World Wide Web is available to currently enrolled students and students who apply by the published admission deadline for ASSIST registration. Academic advisement is mandatory to receive a Registration Access Code (RAC) and be eligible for priority registration by ASSIST. Students with admission, disciplinary, financial or TASP holds will not be permitted to register until such time as the hold has been cleared. A schedule change period by telephone or web is scheduled prior to the beginning of each semester and the first two class-days (summer sessions) or the first five class-days (fall/spring semesters). There is no arena registration.

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

◆ Dropping/Withdrawing

If a student chooses not to attend a class or classes, he or she is responsible for officially dropping or withdrawing through the Office of Admissions and Records. (See the sections on Withdrawal from the University and on Dropping a Course on page 53.) Students who decide not to attend and do not officially notify the Office of Admissions and Records will be responsible for tuition, fees and any other circumstances resulting from failure to officially drop or withdraw. Students must not assume that they will "automatically" be dropped from their classes if they do not attend or do not pay. (If a student has requested some form of financial assistance, payment may have been posted to his or her account.) Refer to the published Schedule of Classes for refund schedules.

◆ Selection of Courses

During the freshman and sophomore years, the student should plan to satisfy not only the Core Curriculum Requirements for a bachelor's degree (see pages 91-93) but also any introductory or prerequisite courses in the major and minor field, as specified by the departments. Also, he or she should, unless excused by waiver, enroll in one activity course in kinesiology (physical education) each semester until the required hours are satisfied. Although each of the departments of the University lists many of the specific courses required in the major and minor areas, usually some choice of courses is permitted at the lower level, the advanced level or at both levels. Choice is permitted when hours are specified as elective hours.

The student should develop an outline of required courses, supplementing it with those courses he or she wishes to take in satisfaction of any elective hours allowed by the department. Any deviation from courses required must be approved by the department chair and the dean of the college, and must be incorporated into the student's Degree Plan. If deviations are made that subsequently are not approved, the student may find that these will merely add hours to graduation requirements. (See also Degree Requirements on page 62.)

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

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

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

Prior to registering, students go through academic advisement to be counseled concerning the best selection of courses. First-year freshmen, students who have not passed the Texas Academic Skills Program (TASP) test, students who are enrolled under the Provisional Enrollment Program (PEP) and students who have not yet declared a major are advised at the Counseling and Advisement Center. All other students are advised by faculty members in their major area.

At advisement, each student receives a Registration Access Code (RAC) that provides access to the ASSIST telephone/web registration system.

► **Registration Policies**

◆ **Dropping a Course**

A student is "dropping" a course or courses if he or she remains enrolled in a minimum of 1 credit hour after all course drops have been completed. Students who drop all classes for which they are enrolled are considered to have withdrawn from the University for that semester. (For more information on withdrawal, see the section below on Withdrawal from the University.)

To drop a course or courses after the official census date (after all registration functions are completed for the semester), a student must: (1) obtain a class drop form from the Office of Admissions and Records, (2) obtain the signature of the instructor of record on the form, and (3) return the completed form to the Office of Admissions and Records, Student Services Building, Room 108.

All course drops must be completed at least two weeks prior to the end of a regular semester and one

week prior to the end of a summer session (refer to the University Calendar in this catalog for drop deadlines). A student dropping a course during the first 30 calendar days of the semester (10 days in a summer session) will receive a "DR" on the permanent record for the course dropped. If a course is dropped later in the semester, the student will be given a grade of "DP" or "DF" by the instructor for the course dropped.

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

◆ **Withdrawal from the University**

To withdraw from the University, a student must complete a formal withdrawal procedure through the Office of Admissions and Records at least two weeks prior to the end of a regular semester or one week prior to the end of a summer session. Withdrawals must be requested by completing the appropriate withdrawal form, or by providing written notification, to the Office of Admissions and Records, Student Services Building, Room 108, 956/381-2201.

A student withdrawing during the first 30 calendar days of a semester (10 calendar days in a summer session) will receive a "W" on his or her permanent record for each course in which the student was enrolled. If the student withdraws later in the semester, he or she will be given a grade of "WP" or "WF" by the instructor for each course in which the student was enrolled. Refer to the published Schedule of Classes for refund periods.

◆ **Transfer Student**

Transfer students with 30 or more hours but without the University College-approved courses, or courses deemed comparable by The University of Texas-Pan American, may take upper-division courses if otherwise qualified, but they too must complete all

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.

◆ Non-Credit Enrollment

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

A student who enrolls in a course for credit may change the enrollment to non-credit by completing a Non-Credit Form in the Office of Admissions and Records, Student Services Building, Room 108, no later than 30 calendar days in a regular semester or 10 calendar days in a summer session from the date university classes begin.

◆ Auditing Classes

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

Students auditing classes do not receive academic credit and do not have the course or courses listed on their academic record. One may enroll as an auditor at any time by: (1) obtaining a Class Audit Form from the Office of Admissions and Records, (2) having it approved by the instructor of the class to be audited, (3) paying the required fee at the Office of Payments and Collections, and (4) using the receipt as an admission card to the class. Such approval may be granted only when space is available and if the instructor permits the student to be a visitor. Instructors reserve the right to refuse any request to visit a course. Enrollment as an auditor does not permit the enrollee to take examinations, have tests or other papers checked by the instructor or to participate in the class discussion. Audited courses are not posted on the student's permanent record. Audit fees (\$20 per course) are non-refundable and may not be appealed. Individuals who are not regularly enrolled students at the University are also eligible to audit classes subject to the regulations stated above.

◆ Residency

Residency for tuition purposes is determined by regulations set forth by the State of Texas. Students are required to sign an oath of residency as part of the application process. Residency for tuition purposes will be based on this oath and other information documents submitted by the student. The requirements are outlined on page 28 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. This card must be validated each semester for the duration of the student's enrollment at this institution. The card remains the property of The University of Texas-Pan American.

The card must be presented for:

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

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 Activities, University Center, Room 205. Fees are subject to change.

Students may not have in their possession more than one student ID card at the same time. This includes Teaching Assistant cards, which are special identification cards given to students who are employed by the University as teaching assistants. For more information, call the Office of Student Activities at 956/381-2660.

◆ Name Change

A student or former student may change the full, legal name on his or her permanent academic record by completing a Change of Name form and submitting the appropriate documentation as follows to the Office of Admissions and Records, Student Services Building, Room 108:

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

◆ Change of Address and/or Telephone Number

If a student changes his or her address or telephone number, he or she is expected to notify the Office of Admissions and Records in writing immediately. The student will be held responsible for any communication from University offices sent to the address last given to the Office of Admissions and Records. No special consideration will be given to students who move and fail to receive the communication. Students whose mail is returned to the University will not receive additional communication until an address change has been submitted.

◆ Enrollment Verification

Enrollment for a given semester cannot be certified until after the official census date for the semester, which is the 12th class day of a fall or spring semester and the fourth class day in a summer session. After this date, students may be classified as full-time, half-time,

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less than half-time, not enrolled or withdrawn.

Enrollment verification for lending agencies is requested at Student Financial Services, Student Services Building, Room 168. Verification of enrollment for personal use (i.e., insurance companies, employment) is requested at the Office of Admissions and Records.

• 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 6-8 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 9-11 semester hours during the regular semester.

◆ Transcripts

A student may secure an official transcript of his or her UT Pan American record by presenting picture identification at the Office of Admissions and Records or by requesting the transcript in writing from the Office of Admissions and Records. Transcripts will be issued at no charge.

The term "transcript of records" is understood to refer to the recorded results of the student's work in the classroom and is a comprehensive record of an individual's total academic progress at UT Pan American. This statement will contain all the important facts pertaining to the student's admission, 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 will have their official transcripts withheld until the debts are paid.

► Attendance Policies

◆ Attendance

In accordance with the policy on absences in the University's Handbook of Operating Procedures, regular attendance in all meetings of courses for which the student is registered is expected. When a student is absent excessively (when in the judgment of the instructor the student has missed more work than can be made up successfully), the student may be dropped from the course with a grade of "DP" or "DF." The Office of Admissions and Records will notify the student that he or she has been dropped from the course. A student who enrolls for a course and then does not attend is considered absent from class until the student officially drops the course.

If the student does not plan to attend the course, he or she must officially drop or withdraw through the Office of Admissions and Records by the published deadline dates. Students will be responsible for all tuition, fees and grades received in classes in which they do not officially drop or withdraw. (See the Schedule of Classes for refund periods for drops and withdrawals.)

Absences on Religious Holy Days

• Definition —

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

• Rules —

a. A student who is excused from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

b. A student who is excused for observance of a religious holy day may not be penalized for the absences if proper notice of the planned absence is given.

c. A student may be penalized by the instructor if he or she fails to satisfactorily complete the assignment or examination originally scheduled for the day(s) absent within a reasonable time after the absences.

• Procedures —

a. The student must submit the request for approved absences for observance of a religious holy day on the Notification of Absence Form.

b. The request must be made no later than the

15th day after the first day of the semester.

c. The completed Notification of Absence Form shall be delivered by the student personally to the instructor of each class, with receipt of the notification acknowledged and dated by the instructor or certified mail, return receipt requested, addressed to the instructor of each class.

d. The instructor will provide the student with a dated copy of the signed form.

Absences for University-Recognized Activities

Students absent while representing the University in officially-recognized University activities (such as athletic events or scholastic or student development activities) are required to inform their class instructors at least one week in advance of the absence and arrange with the instructor to make up missed work or missed examinations. Instructors are encouraged to provide those students the opportunity to make up the work (either prior to or after the anticipated absence) or otherwise adjust the grading to ensure that the student is not penalized for the absence.

◆ Special Populations

Persons with Disabilities

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

Students with disabilities should visit the Office of Services for Persons with Disabilities prior to registration to receive information on the variety of services available. The office is located in Emilia Schunior Ramirez Hall, Room 1.101, Voice/Telecommunications Device for the Deaf (TDD) 956/316-7092. Non-students should contact the Equal Opportunity Office in the Administration Building, Room 335, 956/381-2127.

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

For more information, see page 80.

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 "satisfactory progress towards graduation" requirements in addition to the University's grade

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point progress requirements stated under Scholastic Probation and Suspension:

1. Enrollment during each regular semester must not drop below 12 hours.
2. Subsequent to the student athlete's first academic year in residence and prior to each term in which a season of competition begins, 24 hours of additional credit required for a bachelor's degree in a designated program of studies must be accumulated since the beginning of the student athlete's last season of competition.

Veterans

The Office of Veterans' Affairs assists veterans in completing documents necessary to receive educational benefits for attendance at UT Pan American. Personnel coordinate activities with the Veterans Certification Officer in the Office of Admissions and Records and the Learning Assistance Center, Student Services Building, Room 629, 956/381-2280.

Students receiving V.A. educational benefits must make progress toward a degree as specified in this catalog under Satisfactory Progress and Scholastic Probation and Suspension (see page 40 and page 58).

Reserve Officers' Training Corps

The Army maintains a senior division of the Reserve Officers' Training Corps (ROTC) at UT Pan American. A four-year program and a two-year program are available to interested students, both male and female.

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 six-week summer camp, usually at the end of the junior year. Students who have successfully completed three or four years of Junior ROTC in high school may, at the discretion of the professor of Military Science, be given placement credit for one year of the basic course regardless of academic classification.

Veterans also may be given advanced placement for the basic course, at the discretion of the professor.

Successful students are, upon graduation, commissioned as second lieutenants in the 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 branch schooling followed by an extended tour with a Reserve or National Guard Unit. Qualified cadets may apply for commission in the regular Army.

During the course of instruction, the Army furnishes all required uniforms and military textbooks. Advanced course students receive a tax-free monetary allowance of \$150 per month.

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 six-week Basic Camp at Fort Knox, Kentucky, 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. Further details are available at the Department of Military Science, Southwick Hall, Room 207, 956/381-3600.

► Continuing Enrollment

◆ Academic Standards for Regularly Admitted Students

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

◆ Scholastic Probation and Suspension Policy

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

1. Academic probation or suspension will be determined each regular (fall or spring) semester on the basis of the student's current semester and cumulative grade point average.
2. An undergraduate student will be placed on academic probation as follows:
 - a. Freshman - whenever the student's cumulative grade point average is below 1.70.
 - b. Sophomore - whenever the student's cumulative grade point average is below 1.80.
 - c. Junior and Senior - whenever the student's cumulative grade point average is below 2.00.
3. An undergraduate student will be placed on academic suspension for one regular semester whenever the student enters a semester on academic probation and does not remove himself or herself from academic probation. If the student's current semester grade point average is 2.25 or above for a fall or spring semester, the student will continue on probation.

Level of Academic Status

GPA criteria

GOOD STANDING

Cumulative GPA is 2.00 or above (1.70 in case of freshmen or 1.80 in case of sophomores)

PLACED ON ACADEMIC PROBATION

Cumulative GPA has dropped below 2.00 (1.70 in case of freshmen or 1.80 in case of sophomores)

CONTINUED ON ACADEMIC PROBATION Previously on Academic Probation and Cumulative GPA is below 2.00 (1.70 in case of freshmen or 1.80 in case of sophomores) but current semester GPA is 2.25 or above.

ACADEMIC SUSPENSION Previously on Academic Probation, Cumulative GPA is below 2.00 (1.70 in case of freshmen or 1.80 in case of sophomores) and current semester GPA is below 2.25.

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

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

6. If a student who has been suspended for failure to meet academic probation requirements feels that unusual circumstances warrant a review, the student may direct a written appeal to the Admissions Committee, in care of the Office of Admissions and Records, no later than one week prior to registration. The petition must detail the reasons for alleging that circumstances warrant special consideration and should indicate reasons why the circumstances will not recur. The committee may reinstate a student who has not served the period of academic suspension only when convinced the best interests of both the University and the student will be served by such action.

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

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

◆ Provisional Enrollment Program (PEP)

Students admitted under the Provisional Enrollment Program may continue enrollment at the University under one of two plans:

- ▶ Regular Admission
- ▶ Continued PEP Enrollment

◆ Eligibility for Regular Admission

PEP students will be evaluated for Regular Admission at the following times only, using the criteria shown:

1. At the end of the semester in which the total number of hours the student has attempted at the University first reaches at least 9, and the number of hours completed is at least 6.* The student must have a cumulative GPA of 2.0 or higher and completion of college-level courses from at least two of the eligible areas shown below with at least a 2.0 GPA.

Eligible Areas: English, mathematics, natural sciences, social sciences, foreign language, and humanities.

2. At the end of the semester in which the student first achieves a total of 21 earned hours. At this point, the student must meet the GPA standard for regularly admitted students, which is 1.7 for students with fewer than 30 earned hours and 1.8 for students with 30-59 hours. Students who do not meet the GPA requirement will be ineligible to return to the University for a period of two years. (See "Discontinuation and Requalification" below.)

Eligibility for Continued PEP Enrollment

1. PEP students who have attempted fewer than 9 college-level hours are eligible to continue in the program without meeting further criteria.

2. PEP students who have attempted 9 or more college-level hours and do not qualify for Regular Admission may continue in PEP if they meet both the minimum hours completion criteria and GPA requirement as outlined below:

Minimum Hours Completion Criteria: A minimum number of hours must be successfully completed with a grade of either A, B, C, D, CR or, in developmental English, P, or in developmental math, C. The minimum number, which depends upon the hours attempted, is as follows:

| Hours Attempted | Hours Completed |
|-----------------|-----------------|
| 9 | 6 |
| 10-12 | 9 |
| Above 12 | 10 |

Minimum GPA Requirement: The student's cumulative GPA must be at least 1.7; however, PEP students who have just completed the semester in which the hours attempted reaches a total of 9, and have earned a GPA of at least 1.5, are allowed one additional semester in which to achieve the minimum GPA of 1.7.

Discontinuation and Requalification

Students who do not qualify for either Continued PEP Enrollment or Regular Admission will be ineligible to return to the University for a period of two years. However, if a student attends another institution during that time and successfully completes at least 9 college-level hours from the eligible areas (as previously noted) with a GPA of 2.0 or better, an exception will be made to the two-year waiting period.

In extenuating circumstances, students who are ineligible to continue under provisional policies may petition the Admission Committee for reinstatement.

◆ Texas Academic Skills Program (TASP)

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

TASP, in part, requires the following:

1. **Mandatory Testing and Assessment** — All students must take the TASP test (or approved alternate test) prior to enrolling in college-level courses at a Texas public post-secondary institution, effective fall 1998.

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

3. **Mandatory Academic Advisement** — All students who have not passed all sections of the TASP test must be advised prior to registration each semester; and

4. **Mandatory Developmental Education** (if indicated by assessment) — The TASP test 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 programs are provided to help students overcome deficiencies identified from the assessment; students must remain in continuous developmental education activities until they pass all sections of TASP.

Students who have been diagnosed as having dyslexia or a related disorder or a specific learning disability in mathematics and who complete the developmental program prescribed by the institution may be required to retake the test once but may not be referred to any additional developmental course by other developmental programs or precluded from enrolling in an upper division course because of the student's performance on the test. Contact the Learning Assistance Center in the Student Services Building, Room 618, telephone 956/381-2585, for further information.

◆ The TASP Test

The TASP test is designed to determine whether students possess the basic skills in reading, writing and mathematics necessary for University courses.

In accordance with Texas Education Code, Section 51.306, all students in the following categories who enter public institutions of higher education and have not earned at least 3 college-level semester credit hours before fall 1989 must take the TASP test or an alternate exam prior to enrolling in college-level courses: (1) all full-time and part-time freshmen enrolled in a certificate program or degree program and (2) any other student, including transfers from private or out-of-state institutions. State-approved alternate exams are: ASSET, MAPS, COMPASS, ACCUPLACER and Quick TASP.

The law exempts the following categories of students:

- ▶ those who have earned at least 3 college-level semester credit hours before fall 1989.
- ▶ those who have a composite score on the TAAS, ACT or SAT at or above the level set by the Texas Higher Education Coordinating Board [TAAS 1770 writing and Texas Learning Index (TLI) 86 math and (TLI) 89 reading; SAT taken April 1995 and thereafter — 1070 composite and 500 math and 500 verbal, SAT taken prior to April 1995 — 970 composite and 470 math and 420 verbal; ACT 23 composite and 19 math and 19 English]. For exemption purposes, a TAAS score is valid for three years and an SAT or ACT score is valid for five years. The TAAS minimum scores must be obtained on the first attempt of the TAAS test.
- ▶ blind and deaf students who earned 3 credit hours prior to Sept. 1, 1995. Beginning Sept. 1, 1995, blind and deaf students must take the TASP test. Blind students will be required to take the TASP test with proper accommodations. Deaf students will take the Stanford Achievement Test, which has been

normed on the hearing-impaired population by Gallaudet University.

- ▶ those in certificate programs of less than one year (level one certificates — 42 or fewer semester credit hours).
- ▶ those who enroll on a temporary basis (maximum of one semester) and are also enrolled in a private or independent institution of higher education or an out-of-state institution of higher education the semester immediately preceding enrollment at UTPA, or have graduated from an institution of higher education when the appropriate documentation is submitted by the 12th class day for a fall or spring semester and by the fourth class day for the first or second summer session.

Students with 3 or more semester credit hours or the equivalent awarded prior to the fall semester 1989 are exempt from the Texas Academic Skills Program regardless of any election pursuant to the "Academic Fresh Start" statute, Section 51.931, Texas Education Code. An institution may also exempt a person 55 years of age or over and an international student who is not seeking a degree or certificate.

High School graduate:

Exemption from TASP requirements for students who graduate from a public high school or an accredited private high school in any state with a grade point average of 3.5 or higher on a 4.0 scale or the equivalent and completed the recommended or advanced high school curriculum or an equivalent or similar curriculum at an accredited private high school or at an out-of-state high school. The exemption is effective only for a student who enrolls in an institution of higher education on or before the second anniversary of the date the student graduated from high school.

◆ Other TASP Rules

1. Students who fail one or more parts of the TASP test must register for developmental courses or enroll in developmental programs in a deficient area every semester until they meet standards set by the State of Texas for each part of the TASP test. Standards are set by the Texas Higher Education Coordinating Board and are subject to change.
2. Students who have not passed all parts of the TASP test may not register for any 3000- or 4000-level courses if the number of college hours they already earned plus the number of hours for which they wish to register totals 60 or more hours.
3. Students may not enroll in courses designated as skill area (B or Better) courses until both TASP and

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departmental developmental education requirements have been met. The following have been designated as B or Better courses: Reading: ENG 2303, ENG 2305, ENG 2307, HIST 2313, HIST 2314, PSY 1310, POLS 2313, and POLS 2314; Math: MATH 1340 or higher level math; Writing: ENG 1301, ENG 1302. Contact an advisor in the Counseling and Advisement Center for information regarding enrollment in B or Better courses.

4. Students are required to retake the TASP exam in their deficient area (s) after completing all required developmental education before enrolling in a "B or Better" course.

5. Concurrent enrollment students and international students seeking a degree are subject to the same TASP requirements as all other students.

6. TASP 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 TASP information, including the rules adopted by the Texas Higher Education Coordinating Board, and information about special provisions related to certain disabilities, is available in the Learning Assistance Center and the Office of Admissions and Records at UT Pan American. Students needing more information on TASP rules or their TASP status can call 956/381-2529 or 956/381-2735. The TASP Registration Bulletin is available from the University Testing Center, UTPA Annex Room 112, 2412 S. Clossner, telephone 956/316-2457, e-mail potesting@panam.edu, or from a high school counselor's office.

UNDERGRADUATE DEGREE INFORMATION

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

1. Those leading to one of the following Bachelor's Degrees conferred by UT Pan American:

- ▶ Bachelor of Arts (BA)
- ▶ Bachelor of Applied Arts and Sciences (BAAS)
- ▶ Bachelor of Business Administration (BBA)
- ▶ Bachelor of Fine Arts (BFA)
- ▶ Bachelor of General Studies (BGS)
- ▶ Bachelor of Interdisciplinary Studies (BIS)
- ▶ Bachelor of Science (BS)
- ▶ Bachelor of Science in 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)

2. 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

3. Courses satisfying requirements for a minor field

4. Courses meeting requirements for certification as a teacher.

A complete list of degrees UT Pan American offers is located on pages 11-13.

The College of Science and Engineering also offers curricula meeting requirements for pre-dental (with a major in Biology or Chemistry), pre-optometry (with a major in Biology or Chemistry), pre-pharmacy (two years) and 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 geology, bilingual/bicultural education, generic special education, French, statistics, military science, Mexican-American studies and reading (for students seeking certification only).

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

Students also may choose to graduate within the framework of Honors Studies. Requirements are listed on page 18 and on page 94.

◆ 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:** A student cannot receive two degrees at the same time. Students who wish to pursue more than one major, that fall under different disciplines, must decide at the point of graduation the type of degree he/she will receive. For students wishing to pursue a new degree, please refer to the section of "Additional Bachelor's Degrees." A minimum of 124 hours of work is required with an overall minimum grade point average (GPA) of 2.0. Some major requirements exceed the minimum hours and/or require a higher minimum grade point average.

2. **Major and Minor GPA:** A minimum GPA of 2.0 in the required hours for both the major and minor fields, or for the broad-field major, is required. Graduates who seek certification as elementary teachers must have a minimum GPA of 2.25 cumulative GPA, and for secondary and all-level certification, a 2.5 cumulative GPA is required. Accounting majors are required to have a 2.5 in their accounting courses.

3. **Core Curriculum Hours and GPA:** 48 hours of Core requirements must be satisfactorily completed with a minimum GPA of 2.0. (See page 91-93 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 (6 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. **Residency:** The student must complete and receive credit in residence for: (a) a total of at least 31 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.)

9. **"Re-Using" a Course:** A course may not be used to satisfy a requirement for both a major and minor, or for two majors or for two minors.

10. **Teacher Certification:** All applications for teacher certification are processed through the UT Pan American Certification Office. Since degree plans for bachelor's degrees with teacher certification may differ from plans without certification, students should ensure that a revised, official degree plan and degree worksheet are filed by their major department with the Office of Admissions and Records.

11. **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.

12. **Degree Plan:** The degree plan must be approved by the student's department chair and dean and must be on file in the office of the dean of the college. This requirement is normally to be accomplished as soon as possible after the close of the sophomore year (completion of 60 or more hours). In any event, the degree plan must be on file before the deadline for submitting the "Application for Degree."

13. **Application for Degree:** The Application for Degree must be filed by the student with the Office of Admissions and Records on or before the date specified in the University Calendar, which is approximately nine months prior to the intended date of graduation.

14. **Catalog - Seven Year Limit:** The degree requirements that must be completed for graduation will be those in effect at the time of the student's entrance or those provided in a subsequent catalog. In any case, the catalog used to determine the degree requirements must not be more than seven years old. Any changes in the degree plan to comply with a later catalog must be approved by the department chair and

the dean of the college. For purposes of graduation requirements, this catalog expires August 2009.

15. **Substitutions/Waivers:** A "Substitution Form," initiated at the departmental level, is required for any deviation from the degree plan and University requirements. For department substitutions/waivers, only department and Dean approval are required; for University requirements, the department, Dean and Provost approvals are required.

16. **Graduate Courses:** Graduate courses may not be used to satisfy any undergraduate graduation requirements for a bachelor's degree.

17. **Non-Traditional Credit:** A maximum of 45 hours of college credit will be accepted toward a bachelor's degree by any combination of extension, examination or correspondence, with an 18-hour limit on correspondence credit. No credit will be awarded for "life experience."

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

◆ Additional Bachelor's Degrees

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

1. Complete 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.

2. Complete all requirements for the additional major(s), as set forth in the catalog.

3. Complete all requirements for the additional degree(s), including grade point average requirements, General Education requirements, elective courses and advanced courses, as set forth in the catalog.

4. Comply with all other regulations as stated under Core Curriculum on page 91-93.

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◆ Graduation Under a Specific Catalog

The degree requirements that must be completed for graduation will be those in effect at the time of the student's entrance or those provided in a subsequent catalog. In any case, the catalog used to determine the degree requirements must not be more than seven years old.

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 2009.

◆ Graduate Programs

A list of graduate degrees offered by UT Pan American is on pages 11-13. For more information on graduate programs, consult the Graduate Catalog.

► General Information

◆ Credit by Examination

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

- ▶ American College Testing (ACT) Program - Credit by Examination
- ▶ College Entrance Examination Board (CEEB) Achievement Tests
- ▶ Advanced Placement (AP) Tests
- ▶ College Level Examination Program (CLEP)
- ▶ UT Pan American Local Advanced Standing Examinations - for Credit

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

Credit is posted on the student's permanent record (transcript) when the student officially enrolls at UT Pan

American. Credit by exam is accepted as "credit only" (CR) and does not affect the student's cumulative grade point average (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 at UT Pan American, visit the:

Office of Admissions & Records
Student Services Building, Room 108
phone: 956/381-2201
e-mail: admissions@panam.edu

For additional information regarding testing, contact the:

UT Pan American Testing Center
UTPA Annex, 2412 S. Closner, Edinburg
phone 956/316-2457
e-mail: potesting@panam.edu

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

• ACT Exam Scores

| <u>Subject</u> | <u>Minimum ACT English Score</u> | <u>UTPA Course</u> |
|---------------------|----------------------------------|--------------------|
| 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 College Entrance Examination Board (CEEB) Achievement and/or Advanced Placement (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

| <u>Subject</u> | <u>Min. Score</u> | <u>UTPA Course</u> | <u>Hrs. Credit</u> |
|------------------|-------------------|-------------------------|--------------------|
| 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 | | SEM | |
|-----------------|------------------------------|-----------|-------------|
| Course Number | Subject Exam Title | 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 1380 | Computer Science (A) | 3 | 3 |
| CSCI 1380,2380 | Computer Science (AB) | 3 | 6 |
| ECON 2301 | Economics (Macro) | 3 | 3 |
| ECON 2302 | Economics (Micro) | 3 | 3 |
| ENG 1301 | English Literature | 3 | 3 |
| ENG 1301,1302 | English Language | 3 | 6 |
| ENG 1301,2300 | English Literature | 4 | 6 |
| FREN 1321 | French Lang or French Lit | 3 | 3 |
| FREN 1321,1322 | French Lang or French Lit | 4 | 6 |
| FREN 1321,1322 | | | |
| 2321 & 2322 | French Lang or French Lit | 5 | 12 |
| GERM 1331 | German Language | 3 | 3 |
| GERM 1331, 1332 | German Language | 4 | 6 |
| GERM 2331,2332 | German Language | 5 | 6 |
| HIST 2313, 2314 | U.S. History | 3 | 6 |
| HIST 2331,2332 | European History | 3 | 6 |
| MATH 1401 | Calculus AB | 3 | 4 |
| MATH 1401,1402 | Calculus BC | 3 | 8 |
| PHYS 1401,1402 | Physics (B) | 3 | 8 |
| PHYS 1401,1402 | | | |
| or 2301,2302 | Physics (C) | 3 | 8 |
| POLS 2313 | | | |
| or 2314 | U.S. Government | 3 | 3 |
| SPAN 1303 | Spanish Lang or Spanish Lit | 3 | 3 |
| SPAN 1303,1304 | Spanish Lang or Spanish Lit | 4 | 6 |
| SPAN 1303,1304 | | | |
| 2307,2308 | Spanish Lang or Spanish Lit | 5 | 12 |

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

• **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 once a month during the academic year; one or two tests can be taken in one day of testing. For a list of testing dates, contact the

UT Pan American Testing Center

UTPA Annex
2412 S. Closner, Edinburg
phone: 956/316-2457
e-mail: potesting@panam.edu

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

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

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

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

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• CLEP Subject Examination

| UTPA Course Number | Subject Exam Title | Min Score | SEM | |
|--------------------------------|---------------------------------|--------------|--------|------|
| | | | Credit | Hour |
| ACC 2421, 2329 | Principles of Accounting | 53 | 7 | |
| BIO 1401 | Biology | 46 | 4 | |
| BIOL 1401, 1402 | Biology | 49 | 8 | |
| BLAW 3337 | Intro Business Law | 54 | 3 | |
| CHEM 1301, 1101 1302 & 1102 | Chemistry | 48 | 8 | |
| CIS 1301 | Info Sys & Comp Appl | 51 | 3 | |
| EDCI 4302 | Intro to Educ Psychology | 47 | 3 | |
| ECON 2301 | Prin of Macroeconomics | 55 | 3 | |
| ECON 2302 | Prin of Microeconomics | 53 | 3 | |
| ENG 1301 | Freshman College Comp | 48* | 3 | |
| ENG 1301, 1302 | Freshman College Comp | 60* | 6 | |
| ENG 2300 | Analysis & Interp Literature | 50 | 3 | |
| ENG 2303 | American Literature | 50 | 3 | |
| ENG 2305 | English Literature | 50 | 3 | |
| FREN 1321 | College-Level French Lang | 41 | 3 | |
| FREN 1321, 1322 | College-Level French Lang | 50 | 6 | |
| FREN 1321,1322 & 2321 | College-Level French Lang | 65 | 9 | |
| FREN 1321,1322 2321,2322 | College-Level French Lang | 75 | 12 | |
| GERM 1331 | College-Level German Lang | 41 | 3 | |
| GERM 1331, 1332 | College-Level German Lang | 50 | 6 | |
| GERM 1331,1332 & 2331 | College-Level German Lang | 65 | 9 | |
| GERM 1331,1332 2331,2332 | College-Level German Lang | 75 | 12 | |
| HIST 2313 | History of the United States I | 46 | 3 | |
| HIST 2314 | History of the United States II | 46 | 3 | |
| MANA 3361 | Prin of Management | 53 | 3 | |
| MARK 3371 | Prin of Marketing | 53 | 3 | |
| MATH 1340 | College Algebra | 45 | 3 | |
| MATH 1356 | Trigonometry | 50 | 3 | |
| MATH 1401, 1402 | Calculus | 47 | 8 | |
| POLS 2313 | American Government | 47 | 3 | |
| PSY 1310 | Introductory Psychology | 47 | 3 | |
| SOC 1313 | Introductory Sociology | 47 | 3 | |
| SPAN 1303 | College-Level Spanish Lang | 41 | 3 | |
| SPAN 1303,1304 | College-Level Spanish Lang | 50 | 6 | |
| SPAN 1303,1304 & 2307 | College-Level Spanish Lang | 65 | 9 | |
| SPAN 1303,1304 2307,2308 | College-Level Spanish Lang | 75 | 12 | |

* Plus departmental essay

• UT Pan American Local Advanced Standing Examinations — For Credit

Students interested in acquiring credit through

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

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

• Local Advanced Standing Examinations - For Credit

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

◆ Teaching Certificates

Requirements for teaching certificates in various fields or areas are shown in the respective academic sections of the catalog. General information for undergraduates is shown on page 142 of this catalog and in the Graduate Catalog for graduate students.

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

◆ Degree Plan

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

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

Students who change their major, area of concentration or teacher certification status must have a new official degree plan reflecting their current

status on file with the appropriate department.

Upon request, the department chairs will aid students in preparing degree plans that may be required by institutions or agencies other than UT Pan American. As an illustration, some public school systems require prospective teachers who have not completed their degrees to file an approved plan in the superintendent's office.

► **Graduation Policies and Procedures**

◆ **Application for Degree**

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

◆ **Graduation Fee**

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

◆ **Transfer of Graduation Date**

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

◆ **Commencement Exercises**

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

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for December and May only. July and August graduates may attend the December commencement exercises.

◆ **Regalia (Cap and Gown)**

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

◆ **Correspondence**

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

◆ **Honors**

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

| | |
|-----------------|------------------------------------|
| Summa Cum Laude | Grade point average of 3.9 to 4.0 |
| Magna Cum Laude | Grade point average of 3.7 to 3.89 |
| Cum Laude | Grade point average of 3.5 to 3.69 |

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

ACADEMIC SUPPORT SERVICES

► **University Library**

The University Library is the campus center for resources that support the academic programs at The University of Texas-Pan American. The four-story brick and glass structure contains 170,000 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 approximately 450,000 volumes, 300,000 government documents, more than 6,000 subscriptions, 1,000,000 microform units, and 10,000 audiovisual items. Library collections and databases may be accessed at workstations throughout the building; instructional services are provided in state-of-the-art-classrooms. Of interest to the region and beyond are the special collection materials contained in the Lower Rio Grande Valley Historical Collection and the Rio Grande Folklore Archive. Materials available pertain to the Texas counties of the Valley and northeastern Mexico.

The reference area has numerous microcomputers connected to the Library local area network (LAN) and available for accessing information resources and e-mail. Connectivity with the Internet provides access to the catalogs of other library collections and shared databases made available by The University of Texas System and the TexShare project. Available via CD-ROMs, the Internet or stand-alone systems are different subject area citation and abstract databases; many include an array of full text articles.

Library patrons are offered services that include reference and information consultation and assistance, computerized database searching, interlibrary loan and library use instruction.

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

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

- may check out materials as per circulation policies;

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- are eligible for interlibrary loan privileges
- receive in advance the library newsletter and notification of all special events sponsored by the organization and will be admitted free of charge to such events;

Students enrolled in cooperative programs:

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

The program coordinator must submit a letter with the list of students in the cooperative program to the Circulation Department. The list must include the following information:

- the names of the students
- the students' Social Security numbers
- the students' mailing addresses
- the students' telephone numbers
- the name of the institution where the students are registered and
- the name of the program

Students with incomplete courses: Unenrolled UT Pan American students with incomplete courses during the fall or spring semesters need to purchase the Friends of the Library card if they wish to use the library services.

Resources of the University Library are available seven days a week during regular academic sessions. Detailed information about hours and services may be obtained at the circulation desk or the Library Web site: www.lib.panam.edu, telephone: 956/381-3306 or voice/TDD 956/381-2763.

► Learning Assistance Center

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

The LAC is made up of various units. The tutorial unit and some activities of the Counseling and Advisement Center are coordinated with a U.S. Department of Education Title IV federal project - Student Support Services Program. Call 956/381-2585 or 381-2529 for connections to any of the services listed below. The LAC offices will be moving September 1, 2002. The Counseling Center will be in the first floor of the University Center, Academic Advisement will be in the third floor of the Student Services building and the LAC tutorials will move into an unnamed building. Please check the web at: www.panam.edu for information. The Writing Center is located in the first floor of the Library.

Academic Advisement: Designed to assist students with educational planning with regard to general education course requirements and to inform them about course placement as it relates to legislation governing the Texas Academic Skills Program (TASP) and institutional policy. Mandatory advisement is provided for UT Pan American students who have not met the state passing standard in the three areas of TASP. This service unit also advises all entering freshman students after they attend New Student Orientation, students in the Provisional Enrollment Program (PEP), students on scholastic probation or academic suspension, and students recently transferred from other colleges and universities, or who are planning to transfer from UT Pan American. Also advised are those students wanting to return after a long absence from school, and general walk-ins seeking information or considering enrollment at UTPA.

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

low grades or who wish to improve their grade point average. Tutoring is available in the subject areas of English, Spanish, mathematics, biology, chemistry, physics and the social sciences.

Reading Program: Designed to assist students who wish to improve their reading skills. Students may work selectively in improving vocabulary, reading comprehension or other areas of need specific to reading skills development.

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

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

TASP Labs: Designed to meet the state-mandated non-course based developmental education requirements in the TASP areas of writing, reading and mathematics.

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

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

Career Counseling: Designed to assist students in career exploration activities through individual counseling, the career library and career seminars. To facilitate the process, testing or standardized evaluation may be used to help students gain a better understanding of their academic abilities, interests, aptitudes and personality. Test instruments may be of special interest to those who are unsure of a choice of major or career, or students who want to verify a tentative choice.

STUDENT SERVICES & INFORMATION

◆ Advanced Services for Student Information Supported by Technology (ASSIST)

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

With ASSIST technology, students may access general, academic and financial information from home or various locations on campus. Personal information is protected by a Personal Identification Number (PIN), which initially is the student's date of birth entered as a six-digit number (for example, March 15, 1964, is entered as 031564).

A Registration Access Code (RAC) is required to access ASSIST registration services, and is issued to students by an academic advisor each semester.

ASSIST services include the following:

• **Kiosk Information Stations:** Currently 13 Kiosk Information Stations are located across the UT Pan American campus, with plans to add more stations in the future. These stations are located in the Administration Building, Academic Services Building, Business Administration Building, Communication Arts and Sciences Building, Education Building, Engineering Building, Health and Physical Education II, Health Sciences Building, Science Building, Social and Behavioral Sciences Building, University Library, and Student Union, Student Services Building. Kiosk services include:

- ▶ Campus Map and Directory
- ▶ Calendar of Events
- ▶ Staff and Faculty Job Openings
- ▶ General Information: Course Availability,

Department List, Standard Forms, Financial Aid Awards (PIN required)

▶ Student Records (PIN required): Account Balance, Admission Status, Grades/Unofficial Transcript, Student Schedule

• **Voice Response (Telephone) System:** Information on admissions, grades, registration and payments can be accessed through the voice response system with a touch-tone phone. (These are not toll-free numbers.) Courtesy telephones are available in the Office of

Admissions and Records. Voice Response services include:

- ▶ Application Status
- ▶ Deadline Dates/How to Apply
- ▶ Requirements for Admission
- ▶ TASP Information
- ▶ Grades (PIN required)
- ▶ Registration Information
 - Class Schedule (PIN required)
 - Dates and Procedures
 - Registration Holds (PIN required)
 - Transcript Information
 - Dates Available/How to Request

Registration — 956/381-3000 (RAC required)

ASSIST registration is normally available Monday-Thursday between 7 a.m.-11 p.m. and Friday between 7 a.m.-6 p.m. Some weekends/holidays may be available.

Note: This is not a toll-free call. (Times are subject to change.)

STEP 1 Select one of the following options:

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

STEP 2 Enter your nine digit student ID number (your number will be repeated to you, then enter one if correct, or two if incorrect).

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

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

STEP 5 Select from the following registration options:

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

new course.

Enter 3 list your current course schedule

Enter *2 to return to the main menu.

Enter *7 to repeat this menu.

Enter *9 to end this call.

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

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

- ▶ ASSIST Telephone Payment: 956/381-3030
- ▶ ASSIST Web Payment: www.panam.edu/assist
- ▶ KIOSK Payment at 13 locations:
 - Academic Support Services Building
 - Administration Building
 - Business Administration Building
 - Communication Arts & Sciences Building
 - Engineering Building
 - Education Building
 - Physical Education II Building
 - Health Sciences Building
 - Science Building
 - Social & Behavioral Sciences Building
 - Student Union
 - University Library
 - Student Services Building

Payments and Collections — 956/381-3030
 How to Pay Fees/Office Location
 Tuition Information/Deadline Dates
 Current Balance/Residency Status (PIN required)
 Request Parking Permit (PIN required)
 Credit Card Payment (PIN required)

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

Web for Students: Admission, grade, registration and financial information can be accessed on the Web at www.asisst.panam.edu or cp.panam.edu (Campus Pipeline). Web services include:

- ▶ University Catalogs
- ▶ Class Schedules
- ▶ Admission Information
 - Apply for Admission
 - View Admission Status
- ▶ Registration (RAC required)
 - Add/Drop Classes
 - View Class Availability
 - Conditional Drop/Add
 - Student Schedule (graphic)
 - Student Schedule (detailed)

- View Fee Assessment
- ▶ Student Records (PIN required)
 - View Address Information
 - Update Address
 - View Grades
 - Academic Transcript
 - Account Summary
 - Change PIN Number
- ▶ Financial Aid Awards (PIN required)

▶ Student Rights and Responsibilities

◆ Student Guide

Students are responsible for becoming familiar with policies that govern students. The University of Texas-Pan American Student Guide provides detailed information on numerous aspects of campus life and University policies governing students. Copies of the Student Guide are available through the Office of the Dean of Students, University Center, Room 104.

◆ Student Travel

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

A. Purpose

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

B. Authorization

Student travel, as described above, must be registered with and approved by the Dean of Students or his or

her designee. The Authorization for Student Travel and Release of All Claims forms must be completed and submitted to the Office of the Dean of Students at least two weeks prior to the trip. Each individual requesting authorization for travel must submit a completed Release of all Claims form with the Authorization for Student Travel form.

C. Statutory Requirements

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

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

D. Safety and Mode of Travel

1. All Motor Vehicle Travel

(a) Seat Belts

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

(b) Alcohol and Illegal Substance Prohibited

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

(c) Passenger Capacity

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

(d) License and Training

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

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

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

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

(f) Legal Operation of Vehicle and Driving Schedule

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

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

(a) Service and Maintenance

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

(b) Operators of Vehicles

All operators of vehicles owned, rented, or leased by the University shall be employees of the University and shall have a valid operator's license for the operation of the particular vehicle. All drivers of rental vehicles must be listed on the vehicle rental agreement. In addition, operators shall have a current Motor Vehicle Record on file with the University Department of Environmental Health and Safety. Drivers must have a rating of three points or less as required by The

University of Texas System Business Procedures Memorandum 16-03-02 Automobile Insurance Coverage for Officers and Employees and General Requirements for the Use of Vehicles (BPM 16-03-02).

(c) Travel by Common Carrier

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

◆ Student Right to Know and Campus Security Act

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

The University of Texas-Pan American is concerned about the safety and security of the entire University community. In an effort to provide a safe and secure campus, the University maintains a full-time professional police force composed of state-certified, licensed law enforcement officers, commissioned by The University of Texas System, with the power of arrest, and other noncommissioned security personnel. They patrol the campus 24 hours a day, 365 days a year.

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

All members of the University community should be aware of dangers to their personal safety. Crime happens on campus just as it happens off campus. If someone is the victim of a crime or witnesses a crime, he or she should report it and cooperate with the University Police Department to ensure that the crime is properly investigated and prosecuted.

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

Crimes reported on the UT Pan American Campus can be accessed at the following web address: www.panam.edu/campussafety. A hard copy of the

UTPA Campus Safety and Security Report can be requested by contacting the Office of Student Judicial Affairs at 956/318-5375.

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

University policies and Texas law prohibit the disruption of University operations and events and regulate the use of alcoholic beverages on campus. Violators will be subject to prosecution under the law and the University's disciplinary code. University policies related to the possession, sale and use of alcoholic beverages on campus are described in The University of Texas-Pan American Student Guide. Copies are available on request in the Office of the Dean of Students, University Center, Room 104. Other policies that pertain to crime reporting and crime prevention, facilities access and security, authority of police and related matters are contained in the Student Guide and in the University's Handbook of Operating Procedures. All are available from the Office of the Dean of Students and the Office of University Relations. The following offices are available to assist you:

— Important Phone Numbers —

| | |
|-------------------------------------------|---------------------------------------|
| University Police | 316-7151 or H-E-L-P (4357) |
| Counseling Center | 381-2529 |
| Dean of Students | 381-2260 |
| Student Health Services | 381-2511 |
| Alcohol and Drug Abuse Program | 381-2659 |

◆ Family Educational Rights and Privacy Act (FERPA)

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

In accordance with these laws, The University of Texas-Pan American has adopted the following policy. Individuals are informed of their rights under these laws through this policy, which is included in the University's Handbook of Operating Procedures (HOP), Section 5.2.3 and this catalog. The catalog is made available for inspection through the Graduate School and the Office of Admissions and Records and copies of the Handbook of Operating Procedures are available in the University Library and most administrative offices and on the Internet at <http://www.panam.edu/hop>. This document shall be reviewed periodically by the Dean of Students and the vice president for Business Affairs.

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

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

Additionally, any law enforcement information provided by state law enforcement agencies concerning registered sex offenders may be released from the UT Pan American Police Department. The

Police Department can be contacted at 956/316-7151.

The University will release information in student education records to appropriate University officials as indicated in 1. above when there is a legitimate educational interest. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor or collection agent); a person serving on the Board of Regents; or a student serving on an official committee or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an educational record in order to fulfill his or her professional responsibility.

Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

Where required by regulations, a record of requests for disclosure and such disclosure of personally identifiable information from student education records shall be maintained by the vice president for Business Affairs for each student and will also be made available for inspection pursuant to this policy. If the institution discovers that a third party who has received student records from the institution has released or failed to destroy such records in violation of this policy, it will prohibit access to educational records for five years. Respective records no longer subject to audit nor presently under request for access may be purged according to regular schedules.

•Directory Information

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

1. name, address, telephone number
2. date and place of birth
3. major field of study
4. participation in officially recognized activities and sports
5. dates of attendance
6. most recent previous educational institution attended
7. classification
8. degrees, honors and awards received
9. date of graduation

10. physical factors (height and weight) of athletes
11. photographs
12. University e-mail address

Students may have any or all directory information withheld by notifying the University in writing. Request for nondisclosure will be honored by the University until such time that the student grants permission, in writing, to release the information.

• Access to File

In accordance with House Bill 1922, with few exceptions, you are entitled on your request to be informed about the information UT Pan American collects about you. Under Sections 552.021 and 552.023 of the Texas Government Code, you are entitled to receive and review the information. Under Section 559.004 of the Texas Government Code, you are entitled to have UT Pan American correct information about you that is held by us and that is incorrect, in accordance with the procedures set forth in The University of Texas System Business Procedures Memorandum 32. The information that UT Pan American collects will be retained and maintained as required by Texas records retention laws (Section 441.180 et seq. of the Texas Government Code) and rules. Different types of information are kept for different periods of time.

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

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

• Academic Records

Graduate School, AB 116
Office of Admissions and Records, Registrar, SS 108
College, Division, Department and Faculty Offices

• Student Affairs/Student Services Records

Counseling Office: Director of Counseling, SS 513

Student Services: Dean of Students, UC 104

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

Office of Career Placement Services: Director, SS 147

• Financial Records

Business Office: vice president for Business Affairs,
AB 306

Student Financial Services: Director, SS 186

Educational records **do not** include:

1. financial records of the student's parents or guardian;
2. confidential letters of recommendations that were placed in the educational records of a student prior to January 1, 1975;
3. records of instructional, administrative and educational personnel that are kept in the sole possession of the maker and are not accessible or revealed to any other individual except a temporary substitute for the maker;
4. records of law enforcement units;
5. employment records related exclusively to an individual's employment capacity;
6. medical and psychological records;
7. thesis or research papers; or
8. records that only contain information about an individual after the individual is no longer a student at the institution.

• Challenge to Record

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

Student requests for a formal hearing must be made in writing to the vice president for Business Affairs who, within a reasonable period of time after receiving such requests, will inform students of the date, place and the time of the hearing. Students may present evidence relevant to the issues raised and may be assisted or represented at the hearings by one or more persons of their choice, including attorneys, at the student's expense. The hearing officer who will

adjudicate such challenges will be appointed by the vice president for Business Affairs in non-academic matters and by the provost and vice president for Academic Affairs in academic matters.

Decisions of the hearing officer will be final, will be based solely on the evidence presented at the hearing, will consist of the written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decision of the hearing officer, if the decision is in favor of the student. If the decision is unsatisfactory to the student, the student may place with the education records statements commenting on the information in the records or statements setting forth any reasons for disagreeing with the decision of the hearing officer, or both.

The statements will be placed in the education records, maintained as part of the student's records, and released whenever the records in question are disclosed.

Students who believe that the adjudications of their challenges were unfair or not in keeping with the provisions of the Act may request, in writing, assistance from the president of the institution.

• Copies

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

• Complaints

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

◆ Student Academic Responsibilities and Appeals

• Academic Responsibilities

Students are expected to inform themselves thoroughly concerning the regulations of the University and the course requirements for degrees and to make inquiries in case of doubt. It shall not be

the University's responsibility should complications arise because of failure to follow regulations and requirements.

Regulations will not be waived nor exceptions to requirements made on a plea of ignorance of the regulation or requirement. Students, therefore, should become familiar with all of the information related to the program contained in the printed University bulletins.

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

• Academic Appeals

Periodically, misunderstandings arise with regard to academic expectations and final grades. Students wishing to appeal final grades or misunderstandings in academic standards should first discuss the matter with the instructor of the class. If no resolution occurs, and the student wishes to pursue the matter further, he or she should appeal in writing to the department chair involved. The department chair will respond in writing to the student within 10 class days of the receipt of the student's written appeal.

Pursuant appeals will be written and directed within 10 class days of the date of the department chair's decision to the College Academic Appeals Committee. The committee will consist of a panel of three faculty members, two of whom may not be from the department in which the appeal originated. The dean of the college will appoint the panel members upon receipt of the written appeal and notify the student in writing of the date, time and location of the hearing and the names of the members of the panel. The student and the faculty member involved may appear in person before the panel and present evidence and/or witnesses. The hearing will be closed to the public and no person other than the student, the faculty member involved and panel members may be present. No person may represent the student or the faculty member.

After the College Academic Appeals Committee has heard the appeal, it will deliberate and come to a

decision. The committee's decision will be written and mailed or delivered in person to the student and faculty member within three class days of the close of the hearing. The student may appeal in writing within 10 class days to the dean. The dean's decision will be final and must be mailed or delivered in person to the student within 10 class days of the receipt of the student's written appeal. This policy may be found in the Student Guide.

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

◆ Student Complaint Procedures

• Purpose

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

• Discrimination/Disability Complaints

Students with questions concerning discrimination in employment or based on sex or disability must contact the appropriate compliance officer prior to initiating grievance procedures. Compliance officers are listed below:

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

2. **Sexual Harassment:** The University of Texas-Pan American condemns sexual harassment of its students, staff and faculty. Sexual harassment is a form of sexual discrimination and is illegal. Students who believe they have been subjected to sexual harassment are encouraged to immediately report the incident to the Dean of Students, University Center 104, 956/381-2262. The University's policy concerning sexual harassment may be found in the Student Guide and the Handbook of Operating Procedures.

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

and the Handbook of Operating Procedures. Student complaints or inquiries should be directed to the Director of Student Health, Emilia Schunior Ramirez Hall, Room 1.105, telephone 956/381-2511.

4. **Section 504 of the Rehabilitation Act/Americans with Disabilities Act:** The University of Texas-Pan American provides for the prompt and equitable resolution of complaints alleging violations of these acts, including complaints regarding a refusal to provide requested accommodations and auxiliary aids or services and programs that are perceived to be inaccessible. Students should address ADA or Section 504 complaints to The University of Texas-Pan American, ADA Coordinator, 1201 W. University Drive, Edinburg, TX 78541-2999, 956/381-2127.

◆ Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) concerns the maintenance and confidentiality of student records. The University's policy regarding FERPA may be found in the Student Guide, the Handbook of Operating Procedures and page 72 of this catalog. Students who believe their records are inaccurate or have been disclosed in an unauthorized manner should contact the vice president for Business Affairs, Administration Building 320, 956/381-2121.

◆ All Other Non-Academic Complaints

In an effort to resolve misunderstandings or concerns, a student must first make every effort to resolve the problem by discussing his or her concerns with the faculty or staff member against whom the complaint is lodged. If the concern still exists, the student may discuss the complaint with the appropriate chair or head of the department in which the complaint originated. Additional appeals may be pursued through administrative channels. Students should consult "Student Complaint Procedures" in the Student Guide or Handbook of Operating Procedures for detailed information or request assistance from the Office of the Dean of Students, University Center 104, 956/381-2262.

◆ Student Advicement for Concerns/Complaints

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

◆ Student Conduct and Disciplinary Code

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

◆ Hazing

Hazing is both a violation of University policy and a criminal offense (Sections 37.151 et seq. and 51.936, Texas Education Code) and may result in arrest and prosecution by civil authorities as well as disciplinary action pursuant to the Regents' Rules and Regulations (Part One, Chapter VI, Sections 3.28 and 3.6) and the University's Handbook of Operating Procedures, Section 6.4.1.

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

According to state law, a person can commit a hazing offense not only by engaging in a hazing activity, but also by soliciting, directing, encouraging, aiding or attempting to aid another in hazing; by intentionally, knowingly or recklessly allowing hazing to occur; or by failing to report in writing to the dean of students or other appropriate individual of the institution firsthand knowledge that a hazing incident is planned or has occurred. The fact that a person consented to or acquiesced in a hazing activity is not a defense to prosecution for hazing under the law.

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event to the dean of students or other appropriate individual of the institution and immunizes that person from participation in any judicial proceeding resulting from that report. The penalty for failure to report is a fine of up to \$1,000, up to 180 days in jail, or both. Penalties for other hazing offenses vary according to the severity of the injury which results and include fines from \$5,000 to \$10,000 and/or confinement for up to two years. The law does not affect or in any way restrict the right of the University to enforce its own rules against hazing.

The law defines hazing as any intentional, knowing, or reckless act, occurring on or off the

campus of an educational institution, by one person alone or acting with others, directed against a student, that endangers the mental or physical health or safety of a student for the purpose of pledging, being initiated into, affiliating with, holding office in, or maintaining membership in any organization whose members are or include students at an educational institution.

Hazing includes but is not limited to:

- ▶ Any type of physical brutality, such as whipping, beating, striking, branding, electric shocking, placing of a harmful substance on the body, or similar activity;

- ▶ Any type of physical activity, such as sleep deprivation, exposure to the elements, confinement in a small space, calisthenics, or other activity that subjects the student to an unreasonable risk of harm or that adversely affects the mental or physical health or safety of the student;

- ▶ Any activity involving consumption of food, liquid, alcoholic beverage, liquor, drug, or other substance which subjects the students to an unreasonable risk or harm or which adversely affects the mental or physical health of the student;

- ▶ Any activity that intimidates or threatens the student with ostracism, that subjects the student to extreme mental stress, shame, or humiliation, or that adversely affects the mental health or dignity of the student or discourages the student from entering or remaining registered in an educational institution, or that may reasonably be expected to cause a student to leave the organization or the institution rather than submit to acts described in this subsection; and

- ▶ Any activity that induces, causes, or requires the student to perform a duty or task which involves a violation of the Penal Code.

◆ Solicitation on Campus

The University's policy on solicitation is outlined in The University of Texas System Regents' Rules and Regulations, Part One, Chapter VI.6.6. (The term "solicitation" means the sale, lease, rental or offer for sale, lease, rental of any property, product, merchandise, publication, or service, whether for immediate or future delivery; an oral statement or the distribution or display of printed material, merchandise, or products that is designed to encourage the purchase, use, or rental of any property, product, merchandise, publication, or service; the oral or written appeal or request to support or join an organization other than a registered student, faculty, or staff organization; the receipt of or request for any gift or contribution; or the request to support or oppose or to

vote for or against a candidate, issue, or proposition appearing on the ballot at any election held pursuant to state or federal law or local ordinances.)

► Student Services

◆ Career Placement Services

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

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

The UT Pan American Office of Career Placement Services places students in jobs in three ways. During the students' college years, the office will assist them in locating part-time employment. An internship or co-op assignment is strongly encouraged during the sophomore and junior years for any student wishing to improve his job marketability. Then as they approach graduation, the office helps connect them with prospective employers. Many major corporations, government agencies and other top employers recruit at UT Pan American each year.

Placement: A placement credential service, an online résumé service and on-campus employment interviews are available for seniors. Special activities are also held for all UT Pan American students and alumni in preparation for the career search. These include Career Day, Teacher's Job Expo, Health Professions Career Day, Graduate and Professional School Fair, Engineering and Computer Science Career Day and Job Preparation Workshops, as well as other activities.

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

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

American students. International students are required to apply through the International Student Advisor in the Communication Arts and Sciences Building (CAS), Room 125, telephone 956/381-2922.

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

The Co-Op Program has three options:

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

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

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

To be eligible to participate in the Co-Op Program, students must:

- have completed a minimum of 30 semester credit hours.

- maintain at least a 2.0 grade point average.

- be enrolled at least half-time (six hours).

- either be currently enrolled, or have been enrolled the previous semester and be registered for the upcoming semester.

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

The Office of Career Placement Services

Student Services Building, Room 147

Telephone: 956/381-2247

E-mail: career_place@panam.edu

Web site: careerservices.panam.edu

◆ High School to University Services

The Office of High School to University Services promotes educational excellence in local public schools by providing University resources and services to support a wide variety of programs and activities. These initiatives are designed to encourage students to pursue high levels of academic achievement in high school and to help prepare them for success in college and beyond.

The **Advanced Placement Summer Institutes** prepare high school and middle school teachers to teach Advanced Placement and Pre-AP courses. These intensive week-long training sessions are sponsored by the University in cooperation with the College Board. UTPA Annex, 2412 S. Closner, Edinburg. Telephone: 956/388-2700.

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. UTPA Annex, 2412 S. Closner, Edinburg. Telephone: 956/388-2700. E-mail: ce@panam.edu

University Testing Services offers numerous national and specialized examinations such as the American College Test (ACT), Scholastic Assessment Test (SAT), Graduate Record Exam (GRE), Graduate Management Admissions Test (GMAT), Law School Admissions Test (LSAT), Medical College Admission Test (MCAT), Texas Academic Skills Program (TASP), Quick TASP, Test of English as a Foreign Language (TOEFL), Institutional TOEFL, College Level Examination Program (CLEP), Local Advanced Standing Exam (LASE), Miller Analogies Test (MAT) and a number of others. UTPA Annex, 2412 S. Closner, Edinburg. Telephone: 956/316-2457. E-mail: testing@panam.edu

Texas Scholars, an initiative of the Texas Business and Education Coalition, encourages secondary students to enroll in challenging courses and to complete the "Recommended" high school curriculum. UT Pan American supports the program by serving as a resource for school districts and by providing incentives to students. UTPA Annex, 2412 S. Closner, Edinburg. Telephone: 956/388-2700.

The **Training for Educators** program provides a wide variety of in-service training opportunities for professionals and paraprofessionals employed in the field of education. Non-credit courses, workshops, and certificate programs are available for teachers, counselors, teacher aides, substitute teachers and child care providers. UTPA Annex, 2412 S. Closner, Edinburg. Telephone: 956/388-2700.

◆ Student Outreach Services

The Student Outreach Services Office assists UT Pan American's efforts to establish, meet and maintain

desired enrollment levels of students by recruiting and orienting students to the University. The recruitment program acts in support of these efforts by providing information about UTPA programs and services to prospective students. The Student Orientation Office conducts orientation sessions designed to facilitate new students' adjustment to the University environment, to develop an understanding of academic expectations, to become familiar with campus services and activities and to provide academic advisement for their first term at UT Pan American. Attendance at orientation is mandatory for all entering freshmen and TASP-affected transfer students. All new students (transfer and/or entering freshmen) to the University are assessed a new student fee.

◆ Services for Persons with Disabilities

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

Major program responsibilities include:

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

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

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

◆ Student Health Services

Student Health Services is a fully accredited ambulatory health care facility staffed with physicians

and mid-level providers including physician assistants and family nurse practitioners. Primary medical care, health and wellness education and support services are provided to students registered at UT Pan American.

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

Convenient pharmacy services include prescription and over-the-counter medications and patient counseling. A full-service laboratory offers same day or next day results for most tests. Immunizations, flu vaccines, pregnancy tests, allergy injections and screening tests for tuberculosis, anemia and diabetes are also available. Confidential, anonymous HIV antibody testing is free to students, staff and faculty.

Located on the first floor of Emilia Schunior Ramirez Hall, Student Health Services is open from 8 a.m. to 4 p.m. Tuesday and Friday, 8 am.-7 p.m. Monday, Wednesday, Thursday. Call 956/381-2511 for more information.

HIV/AIDS/HBV: An HIV/AIDS/HBV education and awareness program is available for UT Pan American students, faculty and staff. Under the oversight of Student Health Services, information and programming is available on a one-to-one basis and to various campus groups. Free, confidential, anonymous HIV antibody testing with pre- and post-testing counseling from Valley AIDS Council is available at Student Health Services. The HBV (Hepatitis B) vaccine is available to all students, faculty and staff at a minimal fee. Clients may be referred to appropriate off-campus facilities for additional counseling and treatment as warranted.

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

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

International Students: Health insurance is

required for all international students (F-1 and J-1 visa holders) and may be required for dependents; therefore, purchase of this health insurance will be mandatory for such students unless a waiver has been obtained from the International Student Advisor. The issuance of a waiver requires proof that the student has insurance coverage comparable to the minimum required \$50,000 Major Medical, \$10,000 Medical Evacuation, and \$7,500 Repatriation. Medical Evacuation and Repatriation may not be waived. Contact Student Health Services or International Student Services at 956/381-2922 for further information.

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

Measles: Proof of two doses of measles vaccine administered on or after the first birthday, if born after 1957. The required two doses should be administered at least 28 days apart or have proof of immunity.

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

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

Tetanus/diphtheria: Proof of one "booster" dose of Td vaccine within 10 years.

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

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

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

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

Students enrolled at UT System institutions will

assume the full cost of the immunizations.

Students may obtain information from Student Health Services regarding the consequences of not being current on immunization for certain diseases, the age groups most vulnerable to these vaccine-preventable diseases and local providers of immunization services.

◆ Alcohol and Drug Abuse Program (ADAP)

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

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

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

The program offers individual counseling for students who are experiencing a substance abuse problem or who may be in recovery. All individual counseling is by appointment. ADAP also provides group counseling through a campus recovery group. Groups are run once a week at designated times. The ADAP staff is available for referrals, consultations, group presentations and crisis intervention services.

The Alcohol and Drug Abuse Program is located in the University Center, Room 305, telephone 956/381-2659. ADAP is open from 8 a.m. to 5 p.m. Monday through Friday and by appointment.

◆ Student Publications

Students at UT Pan American are invited to contribute and work on the staff of student publications. Writing, editing and photography usually start before the opening of classes in the fall semester. Some positions are paid, but volunteer workers also are sought as reporters, copyreaders and headline writers.

The student-run newspaper, *The Pan American*, and *Panorama* magazine are headquartered in the Department of Communication in the Communication Arts and Sciences Building, Room 170, telephone 956/381-2541, fax 956/316-7122, Web page <http://www.panam.edu/dept/panamerican>

◆ Clubs and Organizations

A variety of clubs and organizations offer the UT Pan American student friendship, relationships with people of similar interests, avenues for organized and meaningful service and opportunities for self-development. Because new organizations are formed each year, a complete updated list — and assistance in starting up new organizations — is available in the Office of Student Development, University Center, Room 205, telephone 956/381-2660.

▶ UTPA Fraternities

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

▶ UTPA Honor Societies

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

▶ UTPA Religious Organizations

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

▶ UTPA Service Organizations

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

▶ UTPA Sororities

Delta Zeta
Sigma Lambda Gamma
Alpha Omicron Pi
Sisters of Service
Kappa Delta Chi

▶ UTPA Special Interest Organizations

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

▶ UTPA Departmental Organizations

Accounting Society
Alpha Kappa Psi
American Advertising Federation
American Marketing Association
American Sign Language Club
American Society of Mechanical Engineers
American String Teachers Association
Anthropology Club
Association for Computing Machinery
Association of Clinical Laboratory Sciences
Association of Information Technology Professionals
Bilingual Education Student Organization
Bronc Cadet Club
Bronc Pre-Pharmacy Club
Business Student Advisory Council
Elliot Chemical Society
Entrepreneurship Club
Financial Management Association
Forum on International Relations and Business Affairs
French Club
Geology Club
Graduate Association of Student Social Workers
Graphic Design Club
Health and Kinesiology Club
Health Careers Opportunities Organization
Health Occupational Students of America
History Club
Institute for Electrical and Electronic Engineers
Julian Castillo Association of Physical Assistants
MBA Association

Music Educator National Conference (Chapter 652)
National Student Speech Language
and Hearing Association
O.P.E.R.A. Society
Philosophy Club
Political Science Association
Pre-Law Society
Pre-Med/Bio-Med Club
Psychology Club
Social Work Student Organization
Society of Hispanic Professional Engineers
Society for Human Resource Management
Society of Automotive Engineers
Society of Women Engineers
Student Council of Exceptional Children
Student Dietetics Association
Student Nursing Organization
Student Occupational Therapy Association
UT Cares

◆ Student Housing: Residence Halls

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

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

For your housing accommodations, the UTPA campus is home to two Residence Halls and Bronc Village Apartments.

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

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

Each Residence Hall facility has a capacity of 192 beds and is within walking distance to all academic and

service facilities at UT Pan American. Residence halls are centrally air-conditioned and heated. Each suite contains two rooms and an adjoining restroom with vanity and shower. Rooms are equipped with two Ethernet ports, two beds, two desks, two bookshelves, two lockers and two dressers. Telephone service and cable television are available in each room and public telephones are available on each floor. There are a lobby and kitchen/dining area on the first floor and a laundry room and recreation area on the third floor of each facility. In addition, a 24-hour computer lab with network extension is available for residents' use. Staff is available to address student needs and to organize and conduct educational, recreational and social activities throughout the year.

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

NOTE: Residence hall opening and closing dates are subject to change. Please verify availability and opening/closing dates with the Office of Residence Life at 956/381-3439. For reservations and other information on University residence halls and apartment housing, contact the:

Office of Residence Life
Women's Residence Hall
The University of Texas-Pan American
1201 West University Drive
Edinburg, Texas 78541-2999
Telephone: 956/381-3439
Fax: 956/384-5055
E-mail: home@panam.edu

• Residence Hall Fees

Fall/Spring semester room rates are as follows (cost per semester):

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

NOTE: The above rates do not include meal plan fees. Fees and meal plans are subject to change. For current rates, contact the Housing Office.

• Installment Plan

An "installment plan" is available to pay fall and spring semester fees. There is an Installment Plan Fee of \$20 and a \$5.50 Late Charge for payments made after the due date. Neither fee is refundable. Full payment for

summer sessions must be made before moving in.

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

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

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

• Reservations and Room Deposits

Reservations for the residence halls are made through the Office of Residence Life. Requests are made on a first-come first-served basis; students may be placed on a waiting list until space is available through cancellations and "no-shows."

A reservation/damage deposit of \$75 is required. The deposit is refundable, less any property damage, lost keys and improper checkout, if cancellations are received by the following dates:

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

Deposit refunds will take approximately four weeks.

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

• Cafeteria Meals

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

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

Students who withdraw officially from the University and have made full payment may receive a refund for the remaining portion of the residence hall fee.

Students who cancel the residence hall lease for any reason other than official withdrawal will be charged one-fourth of the remaining unexpired portion of the room and board fee as a penalty, in addition to the prorated daily charges accumulated.

• Telephone Payments

All arrangements and payments for local and long

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

• **Student Housing: Bronc Village**

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

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

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

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

◆ **University Outreach Programs**

Upward Bound is a federally funded academic enhancement program designed to assist first generation or low income high school students in developing their potential for success in a post-secondary institution through classroom instruction during the academic year and a five-week summer component on the UTPA campus. Emilia Schunior Ramirez Hall, Room 2.202, telephone 956/381-2596.

Educational Talent Search (ETS) is an early intervention outreach program that serves participants in grades 6-12. The program's objective is to assist participants in the acquisition of skills that will prepare them for entry into the college of their choice. ETS also provides assistance for adult re-entry/GED students. Participants receive a variety of services that include, but are not limited to: counseling; academic advisement; assistance with financial aid and admissions; study skills, career exploration, interest inventories; visits to post-secondary institutions and job sites. University Center, Room 315, telephone 956/381-3651.

The Mother-Daughter Program recruits female 8th-12th graders and their mothers to participate in creative pre-collegiate strategies that prepare them for success in a post-secondary setting. Emilia Schunior Ramirez Hall, Room 2.205, telephone 956/381-2154.

The High School Equivalency Program (HEP) offers preparatory classes, testing, and placement in employment or post-secondary education for migrant or seasonal farmworkers who dropped out of high school and wish to acquire a GED. Emilia Schunior Ramirez Hall, Room 2.207, telephone 956/381-2521.

The Texas Prefreshman Engineering Program (TexPREP) identifies high achieving middle and high school students with the potential and interest in becoming engineers and scientists to guide them toward acquiring the knowledge and skills required for success in their professional aspirations. Math and general Classroom Building, Room 3.218, telephone 956/381-3634.

The College Assistance Migrant Program (CAMP) is designed to meet the special educational needs of migrant and seasonal farmworkers in pursuing higher education. The CAMP program provides outreach, recruitment, academic, supportive and financial assistance to migrant and seasonal farmworkers to help them successfully complete the first academic year of college and to continue in post-secondary education. Additional services include academic advising, monthly stipend, tutoring, personal counseling, career development, life management skills development, and educational/cultural trips. Lamar West, Room 9, telephone 956/318-5333.

► **Other Centers, Support Services and Activities**

◆ **Academic Centers**

• **Center for Applied Research in Education**

The Center for Applied Research in Education (CARE) was founded in 1994 to serve as the research arm of the College of Education and of the University. CARE performs the following four functions for the College of Education: 1) conducts and supports educational research in South Texas and the Rio Grande Valley, 2) disseminates research to the local education community, 3) facilitates the professional development of College of Education students and faculty, and 4) procures funding for educational research. The center engages in cooperative research agreements with school districts in South Texas and the Rio Grande Valley in order to improve the quality of education for students at grades pre-K through higher education. CARE maintains a World Wide Web site on the Internet (<http://www.care.panam.edu>) to serve as a research and information tool for students, faculty and clients. Education Building, Room 114,

telephone 956/381-3437.

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

The Center sponsors multicultural and cross-national research, forming liaisons with community groups and sponsoring presentations on Hispanic and international issues. The center also sponsors two publications, *Rio Bravo Journal* and *Letras Hispanas*, and a third, *Border Journal of Science and Technology*, is now in the planning stage. The Center for International Studies directs the Latin American Studies Center and the Mexican-American Studies Program. Communication Arts and Sciences Building, Room 342, telephone 956/381-3572.

- **Center for Tourism Research.** The Center for Tourism Research in the College of Business Administration addresses social, cultural, environmental and economic issues related to the tourism industry locally, regionally and nationally. Tourism studies targeted by the center include senior travelers or "Winter Texans," Mexican national visitors to the United States, spring breakers at South Padre Island, ecotourism, historic tourism, recreational tourism and local residents' attitudes and reactions toward tourism. The center's most recent publications are *A Winter Texan Guide to Community Volunteerism* and the *Winter Visitor Report*, and *South Padre Island Spring Break 2000*. The center promotes tourism to Texas, particularly South Texas, and assesses the economic impact of tourism on the regions. It also provides an opportunity for students to learn applied research methodologies and to become involved in the research activities of the center. Business Administration Building, Room 122, telephone 956/381-3395.

- **Coastal Studies Laboratory.** The Coastal Studies Laboratory (CSL), established as a marine biology laboratory in 1973 in Isla Blanca Park on South Padre Island, was reorganized and expanded in 1985 with a concentration on University education, public

education and coastal research. The CSL's public display contains representative species of fauna and flora from the immediate area of the Lower Laguna Madre and South Padre Island. The CSL also supports classes and field trips from the University and other schools; many universities in Texas and surrounding states use the CSL facilities for field trips each year. A number of marine-oriented courses are offered at the CSL, 100 Marine Lab Drive, South Padre Island, Texas 78597; telephone: 956/761-2644; fax: 956/761-2913; e-mail: coastal@panam.edu; Web: <http://www.panam.edu/dept/csl/csl.html>

- **International Journal of Mathematics and Mathematical Sciences.** The main editorial office of the *International Journal of Mathematics and Mathematical Sciences* (IJMMS) is established at the Department of Mathematics, The University of Texas-Pan American. This is a refereed weekly journal devoted to publications of original research papers, research notes, and research expository and survey articles, with emphasis on unsolved problems and open questions in Mathematics and Mathematical Sciences. All areas listed on the cover of *Mathematical Reviews*, such as Pure and Applied Mathematics, Mathematical Physics, Theoretical Mechanics, Probability and Mathematical Statistics, and Mathematical Biology, are included within the scope of the journal. Dr. Lokenath Debnath, Professor and chair of Mathematics is the Founding Managing Editor of IJMMS. *International Journal* will always carry out not only research, knowledge, and information, but also the name and therefore, the prestige of The University of Texas-Pan American.

- **Neuhaus Center for Entrepreneurship and Economic Education.** The Neuhaus Center for Entrepreneurship and Economic Education is a multifaceted center that aims to propagate the benefits of entrepreneurship and the market system to the Rio Grande Valley community. With regard to economic and entrepreneurship education programs, the center coordinates a set of courses on entrepreneurship that undergraduate students may take to obtain a minor in entrepreneurship. The center is accredited by the National Council on Economic Education and affiliated with the Texas Council on Economic Education. Through these partnerships, economic and entrepreneurship education programs are offered to elementary and secondary school teachers. The research activities of the center foster basic and applied research on the characteristics and workings of the small firm and economic development

with a particular emphasis on the Rio Grande Valley and northern Mexico. One primary research goal of the center is to better understand the forces driving the economy of the local community. Business Administration Building, Room 216B, telephone 956/316-7136.

- **Speech and Hearing Center.** The UT Pan American Speech and Hearing Center's Speech-Language and Audiology clinics provide comprehensive evaluations for children, college students and older adults. The Speech-Language Clinic evaluates speech, language, feeding, swallowing and related behaviors. The Audiology Clinic evaluates hearing and provides hearing aid fittings. Clients may be referred to other treatment centers in the area or recommended for therapy in the Speech and Hearing Center. Therapy services are provided in the Speech and Hearing Center on a limited basis.

The clinic treats communication disorders related to aphasia, fluency, developmental delay, voice, dysphagia, hearing impairment and others. Evaluation and therapy services are available in English or Spanish. The center also provides accent reduction classes for individuals learning American-English as a second language. Health Science and Human Services West Bldg. -west 1.112 (956) 381-3587.

- **The University of Texas-Pan American Texas-Mexico Border Health Coordination Office.** The mission of The University of Texas-Pan American Texas-Mexico Border Health Coordination Office (TMBHCO) is to foster collaborative health education, health services and health research leading to improved health for the citizens of Texas living along the Texas-Mexico border. Created in 1990, the TMBHCO collaborates with community-based agencies to promote health services and education, providing technical assistance to communities and institutions. The TMBHCO sponsors conferences and workshops on such topics as substance abuse prevention, diabetes, children's health, aging issues and other border health issues. The TMBHCO has produced documents on the demographics and health statistics of the 32 Texas-Mexico border counties. The most recent edition of The UT System Inventory of Texas-Mexico Border Health Services Activity book list 381 health related projects.

One of the other major projects the TMBHCO is involved in includes the establishment and operation of an active Diabetes Registry. The mission of the Diabetes registry is to employ a system of Surveillance, Education and Intervention for the prevention and management of diabetes and its complications.

The Acanthosis Nigricans: The Education and

Screening (ANTES) Initiative involves screening school children for Acanthosis Nigricans, a skin condition that signals high insulin levels in the body. Acanthosis Nigricans screenings can help identify youth who may be at-risk for developing Type II diabetes.

► Outreach Centers

◆ Office of Center Operations and Community Services (CoSERVE)

<http://www.coserve.panam.edu>
OR <http://coserve1.panam.edu>
Telephone 956/381-3361
Fax 956/381-2322

CoSERVE is a component of the Division of External Affairs at UTPA. It is an umbrella organization with more than 20 different outreach centers.

CoSERVE is a national model for economic development and community development providing education, training and professional expertise to local, state, national and international communities to improve the quality of life and foster innovative solutions to economic challenges. CoSERVE's main office is the International Trade and Technology Building. The activities and locations of individual centers are listed below.

- **Census Information Center (CIC)** — provides census data access to local communities that might not have access to data through the Internet. International Trade and Technology Building. Telephone 956/381-3361.

- **Center for Entrepreneurship & Economic Development (CEED)** — serves as a catalyst for business and economic development through the development of public and private partnerships. International Trade and Technology Building. Telephone 956/381-3361.

- **Center for Local Government (CLG)** — increases the capacity of local governments to more efficiently manage public resources and to meet problems in a positive, creative and constructive manner. International Trade and Technology Building. Telephone 956/381-3361.

- **Center for Manufacturing (CFM)** — provides assistance to manufacturers through academic, industrial, governmental or private sources, facilitating faculty research and training, experience and employment for students. Center for Manufacturing. Telephone 956/316-7011.

- **Community Outreach Partnership Center (COPC)** — mobilizes community resources for self-help entrepreneurial activities and micro-enterprises technical assistance in rural communities. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/381-3361.

- **Data & Information System Center (DISC)** — serves the southernmost 19 counties of Texas by meeting their data and mapping needs. International Trade and Technology Building. Telephone 956/381-3361.

- **Economic Development Administration (EDA)** — University center provides technical assistance in strategic management planning and applied research. International Trade and Technology Building. Telephone 956/381-3361.

- **English Language Institute (ELI)** — offers a variety of English language programs to meet the diverse needs of its students. The programs include an intensive daytime program and semi-intensive evening and Saturday programs for students 17 years of age and older. Telephone 956/381-2670.

- **Industrial Partnership Center (IPC)** — develops partnerships between manufacturers and suppliers. Center for Manufacturing. Telephone 956/316-7011.

- **The International Trade and Technology Center (IT²)** — promotes international trade through the use of the latest technology. International Trade and Technology Building 956/381-3361.

- **International & Workforce Development** — provides corporate training to employees of companies and help in enhancing skills of workers in various fields of education. Telephone 956/843-6782.

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

- **National Center of Excellence (NCE)** — builds community capacity in the Rio Grande Valley Empowerment Zone by providing leadership-training skills and technology based community networking. International Trade and Technology Building. Telephone 956/381-3361.

- **One Stop Capital Shop (OSCS)** — assists clients to create, retain and develop business within the Rio Grande Valley Empowerment Zone by providing access to free technical and business assistance. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

- **Project FORGE** — provides business training and

technical assistance to agricultural and other business located in the rural areas and communities of the Rio Grande Valley. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

- **Small Business Development Center (SBDC)** — provides managerial and technical assistance through free one-on-one business counseling to small business owners and entrepreneurs as well as workshops and seminars. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

- **South Texas Minority Business Opportunity Committee (MBOC)** — provides procurement and international business opportunities to minority entrepreneurs in South Texas. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

- **Southwest Border Nonprofit Resource Center (SBNRC)** — Builds capacity for sustainable, long-term development of non-profit organizations through technical skills training, funding sources research, and philanthropic organizations' network. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg 956/316-2610.

- **Texas Manufacturing Assistance Center (TMAC)** — assists small manufacturers to increase productivity and quality, find new markets and ensure their future on the global stage. Center for Manufacturing. Telephone 956/316-7011.

- **Veterans Business Outreach Center (VBOC)** — creates, retains and develops business across Texas, Arkansas, Louisiana, New Mexico and Oklahoma by coupling veterans with local SBA-sponsored technical and managerial assistance. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

- **Women's Empowerment Business Center (WEBC)** — assists women entrepreneurs by providing quality business and technical assistance. UT Pan American Annex, 2412 S. Closner Blvd., Edinburg. Telephone 956/316-2610.

► Cultural Activities

◆ Art Department Exhibits

The Charles and Dorothy Clark Gallery, located in the Fine Arts Complex, and the *University Gallery* located in the Communication Arts and Sciences Building (CAS), feature art exhibitions that are free and open to the public throughout the year. Works by The University of Texas Pan American faculty and students as well as professional artists are exhibited. Located in the Lamar School complex, the *Lamar Gallery* exhibits

work from the University's permanent collection. The Art Galleries are administered through the Art Department. The office for the University Art Galleries is adjacent to the **Clark Gallery** in the Fine Arts Complex. The Gallery Director may be reached at 956/381-2655 or by E-mail: galleries@panam.edu

◆ Dance Companies

- **UT Pan American Dance Ensemble:** Founded in 1984, the Dance Ensemble is the only modern/contemporary dance company in the Rio Grande Valley. Membership in the company is open to all UT Pan American students and is determined by audition. The Dance Ensemble focuses on producing formal theatrical dance performances that maintain high artistic and production standards. Health and Physical Education Building II, Room 110, telephone 956/381-2315.

- **UT Pan American Folkloric Dance Company:** The UT Pan American Folkloric Dance Company, organized in 1970, has as its purpose the preservation and performance of the dance art of Mexico and Spain. Throughout the performing season, the company presents numerous concerts for school children, the general public and private affairs throughout the University, community and state. Membership in the company is available through class audition. Health and Physical Education Building I, Room 110F, telephone 956/381-2230.

◆ Faculty Artist Series

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

◆ Living Author Series

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

◆ Musical Performances

Performing for students and the public are the University Choir, Men's and Women's Choruses, the Concert Band, the Jazz Ensemble, the South Texas Chamber Orchestra, the Mariachi and the Valley Symphony Orchestra and Chorale. Telephone 956/381-3471 for more information.

◆ Albert L. Jeffers Theatre

The Albert L. Jeffers Theatre produces seven to 10 full-length plays each year, including three to four plays in the summer during Pan American Summer Stock (PASS), four to five plays in the fall and spring. The community can purchase individual tickets to each performance; season subscriptions are also available. University ID card-holders are permitted two free admissions per I.D. and as space permits. Actors include University students, faculty and staff, along with community members. The Albert L. Jeffers Theatre seeks to present, within a four-year cycle, quality productions featuring examples from every major genre of dramatic literature. Performances for children and children's theater classes are frequently offered. Funding for the Albert L. Jeffers Theatre is provided by Student Activity Fees, donations, grants and other sources. Communication Arts and Sciences Building (CAS), first floor, telephone 956/381-3581.

◆ Public Use of Facilities

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

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

Anyone from outside the University who is seeking information about scheduling and use of University Special Use Facilities should contact the Office of the Director of Auxiliary Services.

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

UNDERGRADUATE ACADEMIC PROGRAMS

◆ A Liberal Arts Education

Your education at The University of Texas-Pan American will be better measured by the skills you learn and the knowledge you gain than by the number of credit hours you take. We want you to improve your abilities to analyze, synthesize, determine values, use and understand mathematics, and communicate. No matter what subject you choose to major in, you will be required to complete courses in fields that reinforce those skills.

To understand the University College and General Education requirements, you should understand the established goals. These are the characteristics you will be given the opportunity to attain from your 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, a knowledge of logic and scientific method, and the mental self-discipline needed for rigorous critical analysis and synthesis of facts and ideas.

- ▶ The ability to use words and numbers accurately and effectively, and communicate clearly through the spoken and written word as well as through the symbols of mathematics.

- ▶ A historical perspective provided by familiarity with the most significant events, people and achievements of the past; an understanding of the most enduring ideas and values in human history; and a knowledge of the many ways these are expressed in world cultures and in social, political and economic institutions.

- ▶ A general knowledge and appreciation of nature, science and technology.

- ▶ A general knowledge and appreciation of the fine and performing arts and of literature.

- ▶ An understanding of self, along with empathy for the strengths, weaknesses, rights and needs of

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others, as well as the ability to relate to others with human understanding.

- ▶ An appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; and sensitivity to the need for informed, independent moral and ethical decisions.

- ▶ Knowledge of the economic and geographical inter-relationships of regions and nations and their resources.

These are the goals of a liberal arts education and the qualities that distinguish a liberally educated person. They are the skills and characteristics that we hope to nurture in our students through the University College and General Education Requirements.

► CORE CURRICULUM REQUIREMENTS

The Core Curriculum Requirements apply to all students who enter The University of Texas-Pan American to pursue a bachelor's degree. Core Curriculum requirements total 48 hours of work, primarily in the humanities, the social sciences and the natural sciences. These 48 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

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Humanities | 18 hours |
| <ul style="list-style-type: none"> ▶ 6 hours of freshman English ▶ 3 hours of sophomore literature ▶ 3 hours in a language other than English ▶ 3 hours from the arts ▶ 3 hours of philosophy, modern or classical language literature, or honors | |
| Science and Mathematics | 11 hours |
| <ul style="list-style-type: none"> ▶ 8 hours of a laboratory science ▶ 3 hours of college algebra or higher-level mathematics | |
| Computer Literacy | 2 hours |
| 2 hours | |
| Kinesiology and Wellness | 2 hours |
| <ul style="list-style-type: none"> ▶ 2 hours of Kinesiology wellness, health wellness or appropriate ROTC courses | |
| Social Science | 15 hours |
| <ul style="list-style-type: none"> ▶ 6 hours of American history ▶ 6 hours of American and Texas government ▶ 3 hours from any one of these areas: anthropology, criminal justice, economics, psychology or sociology | |

Courses that may be used to satisfy these requirements are outlined later in this section.

◆ Special Considerations for Transfer Students

Transfer students with 30 or more hours but without the Core Curriculum-approved courses, or courses deemed comparable by The University of Texas-Pan American, may take upper-division courses if otherwise qualified, but they too must complete all Core Curriculum requirements before graduation. Transfer students who lack 6 hours of freshman English and/or three hours of mathematics or their equivalents with grades of at least "C" in each course must complete these requirements within their first two semesters at The University of Texas-Pan American.

◆ State Core Curriculum and Transferability

In fall 1999, a new core curriculum went into effect pursuant to the Texas Education Code. Beginning with the fall semester, 1999, 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 5). 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. Humanities | 18 hours |
| Group 1. Freshman English | 6 hours |
| <i>Complete one of the following:</i> | |
| ENG 1301 | Composition or |
| ENG 1387 | Rhetoric and Composition (Honors Plan) |
| <i>Complete one of the following:</i> | |
| ENG 1302 | Rhetoric or |
| ENG 1388 | Rhetoric and Literature (Honors Plan) |

Group 2. English Literature**3 hours***Select one from the following:*

| | |
|----------|-----------------------------------------------|
| ENG 2300 | Introduction to Literature |
| ENG 2303 | Readings in American Literature |
| ENG 2305 | Readings in English Literature |
| ENG 2307 | Readings in 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 3. Language Other Than English**3 hours***A higher-level course may be substituted for any beginning course.***Chinese**

| | |
|-----------|-------------------|
| CHIN 1391 | Beginning Chinese |
| CHIN 1392 | Beginning Chinese |

French

| | |
|-----------|--------------------------------|
| FREN 1321 | Beginning French I |
| FREN 1322 | or Beginning French II |
| FREN 1387 | Beginning French (Honors Plan) |
| FREN 1388 | Beginning French (Honors Plan) |

German

| | |
|-----------|------------------|
| GERM 1331 | Beginning German |
| GERM 1332 | Beginning German |

Japanese

| | |
|-----------|--------------------|
| JAPN 1351 | Beginning Japanese |
| JAPN 1352 | Beginning Japanese |

Spanish

| | |
|-----------|----------------------------------------|
| SPAN 1301 | Beginning Spanish (non-native speaker) |
| SPAN 1302 | Beginning Spanish (non-native speaker) |
| <i>or</i> | |
| SPAN 1303 | Beginning Spanish (native speaker) |
| SPAN 1304 | or Beginning Spanish (native speaker) |
| SPAN 1387 | Beginning Spanish (Honors Plan) |
| SPAN 1388 | Beginning Spanish (Honors Plan) |

Sign Language

| | |
|-----------|---------------------------------|
| COMD 1310 | Sign Language I (beginning) |
| COMD 1320 | Sign Language II (intermediate) |

Group 4. Other Humanities**6 hours***Select one course from each of the following two areas:**Area 1: The Arts*

| | |
|-----------|------------------------------------|
| ART 1301 | Art Appreciation |
| ART 3381 | Perception and Expression in Art I |
| COMM 2312 | Theatre Appreciation |
| KIN 2323 | Dance Appreciation |
| MUS 1307 | Music Appreciation |
| MUS 1308 | Mexican Folk Music |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |
| MUS 3311 | Essentials of Music I |

Area 2: Philosophy and Modern or Classical Language Literature

| | |
|-----------|-------------------------------------------|
| PHIL 1310 | Introduction to Philosophy |
| PHIL 1320 | Introduction to Logic |
| PHIL 2330 | Ethics |
| PHIL 2340 | Philosophy of the Person |
| PHIL 2350 | Social Philosophy |
| PHIL 2370 | Eastern Thought |
| PHIL 2390 | Professional Ethics |
| MCLL 2301 | Topics in Modern and Classical Literature |
| HONR 2387 | Humanities I |
| HONR 2388 | Humanities II |

B. Science and Mathematics**11 hours****Group 1. Natural Science****8 hours***(Must be in same discipline)**Complete one of the following course sequences:***Astronomy**

| | |
|-----------|-------------------|
| ASTR 1401 | General Astronomy |
| ASTR 1402 | General Astronomy |

Biology

| | |
|-----------|------------------------|
| BIOL 1401 | General Biology |
| BIOL 1402 | or General Biology |
| BIOL 1487 | Honors Biology |
| BIOL 1488 | or Honors Biology |
| 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) |

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 |

Group 2. Mathematics **3 hours**

MATH 1340 College Algebra or equivalent or higher-level mathematics course such as MATH 1321, 1356, 1357, 1401, 1388 (Honors Plan, but excluding MATH 2306 and MATH 2307)

C. Computer Literacy **2 hours**

Select 1 from the following:

| | |
|-----------|---------------------------------------------------------------------------------|
| CIS 1201 | Introduction to Information Systems and Technology |
| CSCI 1201 | Introduction to Computer Information Technology |
| CSCI 1300 | Computers and Society |
| CSCI 1380 | Computer Science I |
| CSCI 2325 | Survey of Elementary Scientific Programming (or an appropriate computer course) |

D. Kinesiology **2 hours**

Any Kinesiology wellness activity course, **excluding** folkloric dance *or*

| |
|-----------------------|
| ROTC 1201, 3201, 3202 |
| NURS 2301, 3311 |
| KIN 2301 |

Note: Kinesiology waivers will no longer be issued.

E. Social Sciences **15 hours****Group 1. American History** **6 hours**

Complete one of the following sequences:

| | |
|-----------------|----------------------|
| HIST 2313, 2387 | American Heritage I |
| HIST 2314, 2388 | American Heritage II |

Group 2. Political Science **6 hours**

Complete one of the following sequences:

| | |
|-----------------|-------------------------------------------------|
| POLS 2313, 2387 | United States and Texas Government and Politics |
| POLS 2314, 2388 | United States and Texas Government and Politics |

Group 3. Other Social Science**3 hours**

Select from one of the following four areas:

Area 1. Anthropology

| | |
|-----------|---------------------------------------|
| ANTH 1323 | Introduction to Cultural Anthropology |
| ANTH 1324 | Human Evolution |
| ANTH 1342 | Introduction to Archaeology |
| ANTH 1353 | Introduction to Folklore |
| ANTH 2323 | Mexican-American Culture |

Area 2. Criminal Justice

| | |
|-----------|---------------------------------------------|
| CRIJ 1301 | Introduction to the Criminal Justice System |
| CRIJ 1307 | Crime in America |

Area 3. Economics

| | |
|-----------|----------------------------|
| ECON 1301 | Introduction to Economics |
| ECON 2301 | Principles of Economics I |
| ECON 2302 | Principles of Economics II |

Area 4. Psychology

| | |
|----------|----------------------------|
| PSY 1310 | Introduction to Psychology |
|----------|----------------------------|

Area 5. Sociology

| | |
|----------|---------------------------------------|
| SOC 1313 | Principles of Sociology |
| SOC 1323 | Current Social Issues |
| SOC 1387 | Principles of Sociology (Honors Plan) |
| SOC 2333 | Marriage and the Family |

◆ Purpose of Program

The purpose of University Honors Program is to provide capable and interested students a means of enriching their college education. This purpose is achieved in several ways: by offering honors classes at the freshman and sophomore level; independent study at the upper level; and events such as guest speakers, development seminars, educational travel and a national honor society to provide enrichment to the basic curriculum.

◆ Honors Classes

Honors classes provide an ideal learning situation for the student. The classes are small — usually 25 students or less — and are attended by students with above average academic capabilities. This setting furnishes a student greater opportunity to function as an individual and the professor the chance to utilize creative and innovative teaching techniques. Enrichment rather than acceleration is the main objective. Honors classes are not necessarily more difficult, but rather more stimulating and interesting than many other offerings.

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◆ Independent Study

Independent study furnishes the honors student an opportunity, while still an undergraduate, to work on a one-to-one basis with a professor. In the junior year, honors students begin exploring topics of their own choice in their majors or related areas. This work is done under the supervision of faculty members who possess special expertise in the student's chosen area.

◆ Admission Requirements

There are three ways beginning freshmen gain admission to the University Honors Program:

1. have a composite ACT score of 22 or higher (or SAT equivalent); or
2. graduate in the top 10 percent of their class; or
3. graduate with a 90 percent or higher grade average in academic courses.

Students who already have college credit may also apply for admission. College grades and recommendations from professors determine a college student's admission to the program. Any student who has earned 12 hours or more of college credit with at least a 3.0 GPA is eligible for admission to the Honors Program. Contact the University Honors Office for additional information.

◆ Scholarships

The University Honors Program has a wide range of scholarships available for qualified students. Contact the Honors Program Office for scholarship applications.

◆ University Honors Program Curriculum

In choosing honors classes at the freshman and sophomore level, students should refer to the suggested curriculum under their major and select honors classes to substitute for regular classes whenever feasible to do so.

For example, if the suggested curriculum for the major lists ENG 1301, ENG 1302 and HIST 2313, HIST 2314, students may take the comparable honors ENG 1387, ENG 1388 and honors HIST 2387, HIST 2388. In

the case of science, foreign language and mathematics, some majors require specific classes in these areas while other majors do not. If the suggested curriculum guide simply lists foreign language or science or mathematics but does not indicate a specific class, students may wish to take one of the honors classes in these areas. Contact the Honors Office for information on offerings in any given semester. The director can help interested students fit the Honors Program into any major on campus.

◆ Graduating within the Framework of Honors Studies

While many students may wish to take honors courses as enrichment experiences, there are specific requirements for graduation within the framework of the University Honors Program :

1. Completion of the two humanities courses, HONR 2387 and HONR 2388. The purpose of these courses is to give students a broad overview of their intellectual heritage, thus better enabling them to assimilate knowledge from their other courses and studies.
2. Completion of Independent Studies. Students receive credit in HONR 3187, HONR 3387 and HONR 4387 Independent studies, leading to the Senior Honors Thesis or a creative project, allowing students to delve into a specialized area of knowledge, thus giving them valuable experience as independent scholars. Students may receive credit in their major for Honors 4387.
3. An overall grade point average of at least 3.0.

◆ Student Activities: Gamma Beta Phi

The Honors Studies Program sponsors a chapter of Gamma Beta Phi, a national honors and service society, which connects the academic program with wider social and service interests of honors students. Its national status and worthy reputation provide visibility and prestige for its members.

◆ Inquiries about the University Honors Program

For applications or for further information about the University Honors Program, write to:

Director of the University Honors Program

The University of Texas-Pan American
1201 West University Drive
Edinburg, Texas 78541-2999
or e-mail honors@panam.edu

Undergraduate

**ACADEMIC
PROGRAMS**



College of Arts & Humanities

► General Overview

The College of Arts and Humanities includes the departments of Art, Communication, English, History and Philosophy, Modern Languages and Literature, and Music.

The goals of the College of Arts and Humanities are based upon the recognition that a liberal arts education is the foundation for all University studies. Consequently, the college endorses the "Goals of a Liberal Arts Education" found on page 90 of this catalog.

► Academic Programs

The college offers the Bachelor of Arts in Art, English, History, Latin American Studies, Journalism, Mexican-American Studies, Music, Philosophy, Spanish, Communication and Theatre. Students also may earn a Bachelor of Fine Arts in Art and may choose a further specialization in graphic design.

Students may minor in Art, Communication, English, French, History, Journalism, Mexican-American Studies, Music, Philosophy and Spanish.

Secondary teacher certification is available in art, English, French, History, Journalism, Music, Spanish, Communication and Theatre Arts. Elementary teacher specialization or certification is available in Art, History, Music, Social Studies and Spanish, and all-level teacher certification is available in Music.

At the graduate level, students may earn master's degrees in Art, English, English as a Second Language, History, Spanish, Communication, Music, and Theatre. More information on master's degrees is available in the Graduate Catalog.

The College of Arts and Humanities provides several options to satisfy the General Education requirements for the humanities and for the history portion of the social science requirement.

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Dr. Rodolfo Rocha, Dean

Communication Arts & Sciences Building
Room 334
1201 West University Drive
Edinburg, Texas 78541-2999
Telephone: 956/381-2175
Fax: 956/381-2177
E-mail: rochar@panam.edu

Dr. Wallace E. Tucker, Assistant Dean

Communication Arts & Sciences Building
Room 334
1201 West University Drive
Edinburg, Texas 78541-2999
Telephone: 956/381-2175
Fax: 956/381-2177
E-mail: wtucker@panam.edu
On the Web:
<http://www.panam.edu/colleges/coah.cfm>

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ART

Dr. Nancy J. Moyer, *Department Chair*

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

Full-time Faculty

Brown, Lenard, *Assistant Professor*
Cuenco, Edwin J., *Assistant Professor*
Dutremaine, James, *Lecturer*
Field, Philip S., *Professor*
Hyslin, Richard P., *Professor*
Phillips, Richard, *Assistant Professor*
Martin, Wilbert R., *Professor*
Moyer, Nancy J., *Professor*
Wissinger, Charles, *Assistant Professor*

► General Overview

◆ Mission

It is the mission of the department to develop individual directions among its students. Personal expression in art is encouraged through the use of technical skills combined with creative and critical thinking. In order to achieve this goal, the following objectives are stressed in each art area:

- ▶ increased visual perception
- ▶ maximum creative thought potential
- ▶ knowledge of technical skills
- ▶ knowledge of current art trends
- ▶ multicultural art knowledge
- ▶ a positive work ethic

◆ General Departmental Requirements

Students transferring into the department who have more than 15 hours of art courses must present a portfolio to the department chair for advisement into the 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 with all level certification

General Education Requirements **48 hours**

Major Course Requirements **51 hours**
Core Courses **39 hours**

| | |
|----------|-------------------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2303 | Jewelry/Metalworking I |
| ART 2312 | Drawing II |
| ART 2322 | Painting II |
| ART 2332 | Design II |
| ART 2351 | Art Survey I |
| ART 2352 | Art Survey II |
| ART 2371 | Ceramics I |
| ART 3381 | Perception and Expression in Art I |
| ART 3382 | Perception and Expression in Art II |
| ART 3383 | Creative and Critical Thinking |
| ART 4383 | Art Curriculum |

Designated Electives **12 hours**
Advanced Art History **3 hours**
Advanced Studio Art **9 hours**

Other Course Requirements **27 hours**
COMM 1313 Fundamentals of Speech
Communication

Education Requirements **21 hours**
EDCI 4301 Foundations of Education
EDCI 4302 Educational Psychology
EDCI 4307 Secondary Curriculum: Internship I
EDCI 4308 Advanced Secondary Curriculum:
Internship I
EDCI 4699 Secondary All-Level Internship
READ 4351 Reading

TOTAL 129 hours

◆ Bachelor of Fine Arts with a Major in Art

• BFA-Studio

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section of this catalog on pages 91-93.

Major Course Requirements **73 hours** Core Courses **37 hours**

| | |
|----------|------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2303 | Jewelry/Metalworking I |
| ART 2312 | Drawing II |
| ART 2332 | Design II |
| ART 2351 | Art Survey I |
| ART 2352 | Art Survey II |
| ART 2371 | Ceramics I |
| ART 3311 | Drawing III |
| ART 4193 | Senior Exhibit |
| ART 2322 | Painting II |
| ART 2341 | Sculpture I |
| ART 2361 | Printmaking I |

Designated Electives **24 hours**

Art History

Select 12 advanced hours

Studio Art

Select 12 advanced hours

Art-Undesignated

Select 12 advanced hours

Other Electives **12 hours**

Select 12 hours in any field

Other Major Requirements

1. A grade of "C" will be the minimum prerequisite grade for continuing studio courses in sequence.

2. A grade of "C" or better in ART 4193, as determined by a studio panel, is required for the BFA degree.

TOTAL **130-133 hours**

• BFA-Studio with Specialization in Graphic Design

General Education Requirements **48 hours**

Major Course Requirements **64 hours** Core Courses **55 hours**

| | |
|----------|----------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 1332 | Digital Typography |
| ART 2312 | Drawing II |
| ART 2332 | Design II |
| ART 2351 | Art Survey I |
| ART 2352 | Art Survey II |
| ART 3330 | Digital Illustration |
| ART 3331 | Visual Communications I |
| ART 3333 | Design and Production |
| ART 3334 | Photography as an Art Form |
| ART 3335 | Computer Graphics I |
| ART 3336 | Computer Graphics II |
| ART 4333 | Graphic Design I |
| ART 4334 | Graphic Design II |
| ART 4337 | Digital Photography |
| ART 4338 | Web Page Design |
| ART 4339 | Portfolio |
| ART 4193 | Senior Exhibit |

Designated Electives **9 hours**

Art Studio

Select three advanced hours

Art History

Select six advanced hours

Other Course Requirements **3 hours**

| | |
|-----------|--------------------------------------|
| COMM 1313 | Fundamentals of Speech Communication |
|-----------|--------------------------------------|

Other Electives **9 hours**

Select nine advanced hours in any field.

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 4193, as determined by a studio panel, is required for the BFA degree.

TOTAL **124 hours**

• BFA-Secondary Certification Option III

General Education Requirements **48 hours**

Major Course Requirements **61 hours**

Core Courses **28 hours**

| | |
|----------|--------------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2312 | Drawing II |
| ART 2332 | Design II |
| ART 2351 | Art Survey I |
| ART 2352 | Art Survey II |
| ART 2361 | Printmaking I |
| ART 3383 | Creative and Critical Thinking |
| ART 4383 | Art Curriculum |
| ART 4193 | Senior Exhibit |

Designated Electives **30 hours**

Select 9 hours from the following:

| | |
|----------|------------------------|
| ART 2303 | Jewelry/Metalworking I |
| ART 2322 | Painting II |
| ART 2341 | Sculpture I |
| ART 2371 | Ceramics I |

Art history

Select nine advanced hours.

Studio Art

Select nine advanced hours.

Art Elective

Select six advanced hours.

Other Course Requirements **3 hours**

| | |
|-----------|--------------------------------------|
| COMM 1313 | Fundamentals of Speech Communication |
|-----------|--------------------------------------|

Other Requirements **21 hours**

| | |
|-----------|---------------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4302 | Educational Psychology |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4308 | Advanced Secondary Curriculum: Internship I |
| EDCI 4641 | Secondary Internship II |
| READ 4351 | Reading |

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 4193, as determined by a studio panel, is required for the BFA degree.

TOTAL **133 hours**

◆ **Minor in Art**

18 hours in art, of which 9 hours must be advanced.

• **General Art Minor**

Required courses

| | |
|--------------------------------|-------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| <i>Choose one course from:</i> | |
| ART 2303 | Drawing I |
| ART 2322 | Painting |
| ART 2341 | Sculpture I |
| ART 2371 | Ceramics I |

Designated Electives

Nine hours of upper-division art history or studio.

• **Art Minor in Two Dimensional Art** **18 hours**

| | |
|----------------------------------|---------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2322 | Painting II |
| ART 3335 | Computer Graphics I |
| <i>Choose two courses from:</i> | |
| ART 3311, 3321, 4321, 3336, 4391 | |

• **Art Minor in Three Dimensional Art** **18 hours**

| | |
|----------------------------------------------------|----------|
| ART 2331 | Design 2 |
| <i>Choose two courses from:</i> | |
| ART 2303 | |
| ART 2341 | |
| ART 2371 | |
| <i>Choose two courses from:</i> | |
| ART 3302, 3303, 4303, 3341, 4341, 3371, 3372, 4371 | |

• **Art Minor in Ceramics** **21 hours**

Student must select Art 1301 under general requirements.

| | |
|----------|------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2322 | Painting I |
| ART 3321 | Painting II |
| ART 4321 | Painting IV |
| ART 3350 | Contemporary Art |

• **Art Minor in Jewelry/Metalsmithing** 21 hours

Student must select ART 1301 under general requirements.

| | |
|----------|---------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2303 | Jewelry/Metalsmithing I |
| ART 3302 | Jewelry/Metalsmithing II |
| ART 3303 | Jewelry/Metalsmithing III |
| | Advanced Art History |

• **Art Minor in Sculpture** 21 hours

Student must select ART 1301 under general requirements.

| | |
|----------|------------------|
| ART 1311 | Drawing I |
| ART 2332 | Design II |
| ART 2341 | Sculpture I |
| ART 3341 | Sculpture II |
| ART 4341 | Sculpture III |
| ART 3350 | Contemporary Art |

• **Art Minor in Art History**

Student must select ART 1301 under general requirements.

| | |
|----------|----------------------|
| ART 2351 | Art Survey I |
| ART 2352 | Art Survey II |
| ART 4351 | Pre Conquest |
| ART 4352 | Pre Conquest |
| | Advanced Art History |
| | Advanced History |

• **Art Minor in Computer Graphics** 18 hours

| | |
|----------|----------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 1332 | Typography |
| ART 3335 | Computer Graphics I |
| ART 3336 | Computer Graphics II |
| ART 3337 | Digital Photography |

• **Specialization for Certification in Art**
Elementary Certification Option I: 15 hours

in Art, of which 6 hours must be advanced.

Required Courses

| | |
|----------|----------------------------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2332 | Design II <i>or</i> |
| ART 2371 | Ceramics I |
| ART 3381 | Perception and Expression in Art I <i>or</i> |
| ART 3382 | Perception and Expression in Art II |

| | |
|----------|------------------------|
| ART 3321 | Painting III <i>or</i> |
| ART 4311 | Advanced Drawing |

• **Elementary Certification Option II:** 24 hours
in Art, of which 12 hours must be advanced.

Required Courses

| | |
|----------|-------------------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2332 | Design II <i>or</i> |
| ART 2371 | Ceramics I |
| ART 2352 | Art Survey II |
| ART 3352 | Contemporary Art <i>or</i> |
| ART 4352 | Latin American Art — Post Conquest |
| ART 3381 | Perception and Expression in Art I |
| ART 3382 | Perception and Expression in Art II |

• **Secondary Certification Option II:** 24 hours
in Art, of which 12 hours must be advanced.

Required Courses

| | |
|----------|--------------------------------|
| ART 1311 | Drawing I |
| ART 1331 | Design I |
| ART 2332 | Design II <i>or</i> |
| ART 2371 | Ceramics I |
| ART 2361 | Printmaking I |
| ART 3383 | Creative and Critical Thinking |
| ART 4383 | Art Curriculum |

Designated Electives

Select 3 hours from the following:

| | |
|----------|------------------|
| ART 3321 | Painting III |
| ART 3361 | Printmaking II |
| ART 3371 | Ceramics II |
| ART 4311 | Advanced Drawing |

Select 3 hours of Advanced Art Histories.

◆ **Course Descriptions**

A listing of courses offered by the Department of Art can be found on page 237.

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COMMUNICATION

Dr. Salma I. Ghanem, *Department Chair*

Communication Arts & Sciences Building

Room 165

Telephone: 956/381-3583

Fax: 956/381-2685

E-mail: ghanem@panam.edu

Full-time Faculty

Ellis, Kate, *Assistant Professor, Theatre/TV/Film*

Ghanem, Salma, *Associate Professor,*

Department Chair, Journalism

Grabowski, Thomas E., *Assistant Professor,*

Theatre/TV/Film

McLemore, George C., *Associate Professor,*

Communication Studies

McQuillen, Jeffrey, *Assistant Professor,*

Graduate Advisor, Communication Studies

Monta, Marian F., *Professor, Program Coordinator,*

Theatre/TV/Film

Nirenberg, Jacqueline, *Lecturer, Journalism*

Rieke, R. Neal, *Assistant Professor,*

Undergraduate Program Coordinator,

Communication Studies

Saavedra, Dora E., *Associate Professor,*

Communication Studies

Selber, Gregory, *Assistant Professor, Journalism*

Stanley, Jack R., *Professor,*

Journalism and Theatre/TV/Film

Wiley, Eric, *Assistant Professor, Theatre/TV/Film*

► 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 a theatre course (COMM 2312) in the General Education curriculum.

The department sponsors a chapter of Alpha Psi

Omega, the national theatre honorary fraternity, and hosts a University chapter of the American Advertising Federation.

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 Journalism
 - Option in Communication Studies
 - Option in Theatre/TV/Film
- ▶ Master of Arts in Communication
- ▶ Master of Arts in Theatre

Career Potential: Broad career areas in communication disciplines include: international communication; sales and marketing; public relations and advertising; training and organizational development; mass communication-broadcast and print journalism; communication education/instruction; electronic educational materials; government-politics-religious-social services; educational theatre; community theatre; design and directing; acting; arts management; and TV direction and production.

◆ Bachelor of Arts in Communication

Communication is a broad-based major with three options. The student will select a single option area from either the Communication Studies, Journalism or Theater/TV/Film program areas. Theatre majors must take a one-hour communication practicum course each fall and spring semester of enrollment. Within each concentration area are specialized career tracks. The student must work closely with a curriculum advisor in selecting an appropriate career track for the student's degree plan.

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

Journalism option

- Print Journalism track
- Broadcast Journalism track
- Advertising/Public Relations track

Communication Studies option

Theatre/TV/Film option

- Design track

Performance track
Television, Film track

• Public School Teacher Certification

Career Tracks available under each option area are as follows: [**NOTE:** Teacher certification degree plans are structured differently, requiring teaching field(s), a possible minor and 21 advanced hours of Professional Development/Education coursework. Confer with the undergraduate advisor.]

• Communication Studies Option I 37 hours*

*Includes General Education Requirement of
COMM 1303 or COMM 1313

| | |
|-----------|----------------------------------------|
| COMM 1310 | Oral Interpretation |
| COMM 1315 | Survey of the Media |
| COMM 2315 | Interpersonal Communication |
| COMM 3301 | Rhetoric of Television |
| COMM 3316 | Intercultural Communication |
| COMM 3317 | Speech for the Classroom Teacher |
| COMM 3330 | Argumentation and Debate |
| COMM 3334 | Communication Through Group Process |
| COMM 3335 | Advanced Public Speaking |
| COMM 3350 | Research in Communication |
| COMM 3413 | Literature in Performance |

Plus a Second Teaching Field 24 hours
(must include 12 advanced hours)

• Communication Studies Option II 24 hours

Recommended courses include:

| | |
|-----------|-----------------------------------------|
| COMM 1310 | Oral Interpretation |
| COMM 1313 | Fundamentals of Speech Communication |
| COMM 1315 | Survey of the Media |
| COMM 2315 | Interpersonal Communication |
| COMM 3301 | Rhetoric of Television |
| COMM 3317 | Speech for the Classroom Teacher |
| COMM 3330 | Argumentation and Debate |
| COMM 3334 | Communication Through Group Process |

• Theatre Option

Secondary Level, Option I and Secondary Level, Option II Certifications are available. See page 106 for details.

• Journalism Option

Secondary Level, Option II Certification is available. See page 103 for details.

◆ Minor in Communication

The student, with departmental advisement, will complete 18 hours, of which 9 hours must be advanced coursework, in a single concentration of Communication — either Communication Studies, Journalism or Theatre/TV/Film.

• Option in Journalism

The Department of Communication stresses a broad background in liberal arts and sciences for journalism students. The student spends about three-fourths of his or her time on general background courses. The remaining one-fourth involves the development of professional journalism techniques in relation to this general background knowledge.

To enroll in upper-level journalism courses, a student must have a University grade point average of 2.25. Students who do not fulfill this requirement will be dropped from journalism courses. (This requirement is waived for transfer students during their first semester while establishing a University grade point average.)

In addition to completing the 48 hours of the General Education requirements, journalism students must have completed COMM 1315 with a grade of at least "C" prior to enrolling in any journalism courses.

• Option in Journalism Degree Requirements

A. Core Courses 25 hours

Journalism students must take the following 25 hours of core courses:

| | |
|-----------|--------------------------------|
| COMM 1315 | Survey of the Media |
| COMM 3303 | Writing for the Mass Media |
| COMM 3305 | Copy Editing |
| COMM 3327 | Reporting I |
| COMM 3350 | Research in Communication |
| COMM 4313 | Media Law and Ethics |
| COMM 4327 | Mass Communication and Society |
| COMM 4332 | Media Publishing |

B. Concentration Requirements

Concentration Areas:

Print Track — 15 hours

"C" Minimum

| | |
|--------------------------------------|-------------------------|
| COMM 3306 | Feature Writing |
| COMM 3328 | Writing for Publication |
| COMM 3329 | Specialized Reporting |
| COMM 4326 | Photojournalism |
| 3 hours Advanced Journalism Elective | |

Advertising/Public Relations 18 hours*"C" Minimum*

| | |
|-----------|--------------------------|
| COMM 2304 | Television Production |
| COMM 3304 | Advertising |
| COMM 4321 | Public Relations |
| COMM 4322 | Public Relations Writing |

3 Hours from below may be substituted from another track:

| | |
|-----------|----------------------------------------|
| COMM 4334 | Communication Campaigns |
| COMM 4335 | Creative Strategies and Media Planning |

Broadcast Journalism Track 18 Hours*"C" Minimum*

| | |
|-----------|------------------------------------------|
| COMM 2304 | Television Production |
| COMM 3401 | Broadcast News Writing |
| COMM 3403 | Television News Production and Reporting |

3 hours from below may be substituted from another track:

| | |
|-----------|------------------------------------------------|
| COMM 4101 | Practicum |
| COMM 4314 | Advanced Television/Film Production |
| COMM 4417 | Radio/TV and Television Advertising Production |

Other Requirements

A portion of the journalism student's coursework must be chosen outside the journalism area. The outside concentration requirement may be elected as:

1. 18 hours in one academic department, or
2. 18 hours in an area of study to meet specific career goals or to satisfy a minor.

In either option, 9 of the 18 hours must be at the 3000-level or above, and all 18 hours must be completed with a course grade of "C" or better. A journalism student must have a grade of at least "C" in each journalism course counted toward the degree.

• Public School Teacher Certification

Students seeking state certification in journalism should consult the College of Education. Only Option II is available. Students wanting to teach journalism at the secondary level will complete the following 24 hours:

| | |
|-----------|-------------------------|
| COMM 3304 | Advertising |
| COMM 3305 | Copy Editing |
| COMM 3306 | Feature Writing |
| COMM 3327 | Reporting I |
| COMM 3328 | Writing for Publication |
| COMM 4313 | Media Law and Ethics |

| | |
|-----------|--------------------------------|
| COMM 4326 | Photojournalism |
| COMM 4327 | Mass Communication and Society |

◆ Minor in Journalism

Applicants must complete 18 hours, of which 9 hours must be advanced coursework. All courses must be completed with a grade of "C" or better.

• Option in Communication Studies

The option in Communication Studies offers students the opportunity to specialize in one of two tracks: Communication Studies or Certification.

General Education Requirements 48 hours

Complete the requirements shown in the General Education Requirements section of this catalog on pages 91-93.

Section A. Humanities

| | |
|-----------|--------------------------------------|
| COMM 1303 | Presentational Speaking or |
| COMM 1313 | Fundamentals of Speech Communication |

Core Courses 37 hours**Communication**

| | |
|-----------|-------------------------------------|
| COMM 2315 | Interpersonal |
| COMM 3301 | Rhetoric of Television |
| COMM 3314 | Persuasive Communication |
| COMM 3316 | Intercultural Communication |
| COMM 3330 | Argumentation & Debate |
| COMM 3331 | Principles of Interviewing |
| COMM 3332 | Organizational Communication |
| COMM 3333 | Rhetorical and Communication Theory |
| COMM 3334 | Group Process |
| COMM 3335 | Advanced Public Speaking |
| COMM 3350 | Communication Research |
| COMM 4103 | Practicum |
| COMM 4307 | Social/Political Movements |

◆ Minor in Communication Studies (non-certification)

A minor in Communication Studies (non-certification) requires a total of 18 semester hours. All courses must be completed with a course grade of "C" or better. Students should consult with a departmental advisor for guidance with course selection.

• Option in Theatre/TV/Film

The option in Theatre/TV/Film supports three major educational objectives:

1. preparation for entry into the workforce as a theatre pre-professional;
 2. preparation for entry into a graduate degree program in theatre; and
 3. preparation as a theatre teacher.
- Students pursuing the third objective should select one of the curriculum tracks that leads to certification.

• Curriculum Tracks in Theatre/TV/Film

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog EXCEPT as shown below:

Section A. Humanities

It is recommended that students select ENG 2313/ COMM 2313 as one of the courses.

Core Courses **18 hours**

| | |
|-----------|-------------------------------------|
| COMM 1305 | Acting I |
| COMM 2304 | Television Production |
| COMM 4301 | Directing I |
| COMM 4302 | Directing II |
| COMM 4314 | Advanced Television Film Production |
| COMM 4316 | History of the Theatre II |

Technical Electives **28-33 hours** *See individual requirements below.*

Other Electives **12-17 hours**

TOTAL **124 hours**

• Specific Requirements: Performance Track

Technical Electives **33 hours**

| | |
|-----------|---------------------------------------------------------|
| COMM 2101 | Practicum-Theatre-TV-Film (must be taken four times) |
| COMM 2306 | Acting II |
| COMM 2319 | Make-Up |
| COMM 3302 | Speech for Stage and Screen |
| COMM 3341 | Acting III <i>or</i> |
| COMM 3342 | Acting IV |
| COMM 3311 | Contemporary Drama |
| COMM 3323 | World Drama |
| COMM 4101 | Practicum-Theatre-TV-Film (must be taken twice) |
| COMM 4315 | History of the Theatre I |
| COMM 4418 | Theory and Styles of Acting <i>or</i> |
| COMM 4419 | Problems in Acting |

Other Electives **12 hours**

The following are recommended:

| | |
|-----------|-----------------------------------------------------------|
| COMM 3324 | Cinematography/Videography |
| COMM 4304 | Scriptwriting for Stage and Screen |
| COMM 4615 | Summer Theatre Workshop <i>or</i> |
| COMM 3623 | Professional Internship- Cooperative Education-Theatre |

• Specific Requirements: Design Track

Technical Electives **30 hours**

| | |
|-----------|----------------------------------------------------------|
| COMM 1311 | Technical Production I |
| COMM 1312 | Technical Production II |
| COMM 2320 | Costume Technology |
| COMM 3309 | Advanced Technical Production and Design |
| COMM 3310 | Lighting for the Stage, Film and TV |
| COMM 3311 | Contemporary Drama <i>or</i> |
| COMM 3323 | World Drama |
| COMM 3324 | Cinematography/ Videography |
| COMM 4101 | Practicum-Theatre-TV-Film (must be taken three times) |
| COMM 4315 | History of the Theatre I |

Other Electives **15 hours**

The following are recommended:

| | |
|-----------|-----------------------------------------------------------|
| COMM 2101 | Practicum-Theatre-TV-Film (should be taken four times) |
| COMM 2319 | Make-Up |

• Specific Requirements: Television, Film Track

Technical Electives **30 hours**

| | |
|-----------|-------------------------------------------------------------------------|
| COMM 1312 | Technical Production II |
| COMM 2101 | Practicum-Theatre-TV-Film (must be taken three times) |
| COMM 3302 | Speech for Stage and Screen <i>or</i> |
| COMM 4304 | Scriptwriting for Stage and Screen |
| COMM 3309 | Advanced Technical Production and Design |
| COMM 3310 | Lighting for the Stage, Film and TV |
| COMM 3324 | Cinematography/Videography |
| COMM 3325 | Motion Picture History and Significance |
| COMM 3623 | Professional Internship- Cooperative Education- Theatre <i>or</i> |
| COMM 4616 | Summer Television Workshop |
| COMM 4315 | History of Theatre I |

Other Electives 17 hours*The following is recommended:*

COMM 3302 Speech for Stage and Screen *or*
 COMM 4304 Scriptwriting for Stage and Screen
 (whichever is not taken as a Technical Elective)

• Certification Tracks**General Education** 48 hours**Core Courses** 18 hours

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

• Teaching Field: Secondary Theatre Arts, Option I**Technical Electives** 29 hours

COMM 2320 Costume Technology
 COMM 3309 Advanced Technical
 Production and Design
 COMM 3311 Contemporary Drama *or*
 COMM 3323 World Drama
 COMM 3319 Arts Management and Publicity
 COMM 4101 Practicum-Theatre-TV-Film
 (must be taken three times)
 COMM 4418 Theory and Styles of Acting

Minor in a second teaching field (not certified)

24 hours of core courses

Minor in Secondary Education

18 hours of core courses

Electives 3 hours*The following are recommended:*

COMM 2306 Acting II *or*
 COMM 3341 Acting III *or*
 COMM 3342 Acting IV

TOTAL 130 hours**• Teaching Field: Secondary Theatre Arts, Option II****Technical Electives** 6 hours

COMM 3323 World Drama
 COMM 4101 Practicum-Theatre-TV-Film
 (must be taken three times)

Secondary Teaching Field

24 hours of core courses

Minor in Secondary Education

18 hours of core courses

Recommended Electives

7-8 hours

COMM 2306 Acting II *or*
 COMM 3409 Acting III *or*
 COMM 3342 Acting IV
 COMM 2319 Make-Up

TOTAL

124 hours

◆ Course Descriptions

A listing of courses offered by the Department of Communication can be found on page 255.

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ENGLISH

Dr. Steven Schneider, *Department Chair*

Communication Arts & Sciences Building

Room 213

Telephone: 956/381-3421

Fax: 956/381-3423

E-mail: schneiders@panam.edu

Full-time Faculty

Anderson-Mejias, Pamela, *Associate Professor*

Bloom, Leonard, *Assistant Professor*

Cararas, Sandra A., *Assistant Professor*

Chenoweth, Ann, *Assistant Professor*

Daniel, Clay L., *Associate Professor*

Davidson, Judy, *Lecturer*

del Rio, Eduardo, *Lecturer*

Hamilton, Lee, *Associate Professor*

Hamilton, Rebekah, *Associate Professor*

Haule, James M., *Professor*

Heckler, Edward, *Associate Professor*

Johnson, Robert, *Associate Professor*

Jung, Euen Hyuk, *Assistant Professor*

Lang, Yong, *Assistant Professor*

LaPrade, Douglas E., *Associate Professor*

Mery, Adelle, *Lecturer*

Mitchell, Paul, *Associate Professor*

Newman, Beatrice, *Professor*

Newman, Donald, *Associate Professor*

Pipkin, Catherine, *Lecturer*

Reed, Michael D., *Professor*

Schneider, Steven, *Professor*

Taylor, Karen, *Lecturer*

Thompson, Frieda, *Lecturer*

Vielma, Barbara, *Lecturer*

West, Thomas, *Lecturer*

► General Overview

The Department of English offers undergraduate major and minor programs in English, with specializations in literature, language and English as a Second Language. Teacher certification plans in English are available at both secondary and elementary levels.

In addition, the department also offers graduate major programs leading to the Master of Arts in English, the Master of Arts in English as a Second Language and the Master of Arts in Interdisciplinary

Studies with a concentration in English. More information is available in the Graduate Catalog.

Major and minor programs in English offer students an opportunity to discover more about the world in which they live, to learn to appreciate the artistic works of fellow human beings and to develop literary and language aptitudes of their own.

To students who view education primarily as career training, English programs provide excellent preparation for any profession requiring a high degree of skill and comprehension in oral and written communication.

◆ Major in English

The Bachelor of Arts degree with a major in English requires 36 hours of English, of which 24 must be advanced. ENG 2300 and ENG 2308 (when special topic is "Introduction to Classical Literature") or ENG 2387 and ENG 2388 are recommended sophomore literature courses for English majors. Required courses: ENG 3319; ENG 3312 or ENG 3313; and ENG 3331 or ENG 3332.

The Department of English offers courses in literature, language (linguistics), English as a Second Language and writing. Students may consider the offerings below in order to develop an individual degree plan in consultation with an advisor from the department.

• 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, 3317, 3320 (when topic is literary), 3322, 3323, 3324, 3331, 3332, 4301, 4309, 4310, 4312, 4316, 4318.

• Offerings in Language (Linguistics):

ENG 3319, 3320 (when topic is linguistic), 3321, 3330, 4302, 4308, 4314, 4321, 4326, 4331.

• Offerings in English as a Second Language:

ENG 3319*, 3321*, 4326, 4328*, 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.

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• **Offerings in Writing:**

ENG 1301, 1302, 1320, 1387, 1388, 2308 (when special topic is writing), 3320 (when special topic is writing), 3333, 4322, 4325.

► **Degree Requirements**

General Education Requirements 48 hours

Complete the requirements shown in the General Education Requirements section of this catalog on pages 91-93 EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown below.

Section A. Humanities

Group 2. English Literature

The following are recommended:

- ENG 2300 Introduction to Literature
 ENG 2308 Readings in Special Topics (when the topic is "Introduction to Classical Literature")
 ENG 2388 Readings in World Literature (Honors Plan)

Required Courses 3 hours

ENG 3319 Introduction to Descriptive Linguistics

Designated Electives 6 hours

Select one course from each sequence:

- 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

Other English Courses 27 hours

Other Requirements

At least 24 advanced hours of English.

TOTAL 124 hours

◆ **Minor in English**

18 hours of English, of which 6 must be advanced. ENG 2300 and ENG 2308 (when special topic is "Introduction to Classical Literature") or ENG 2387 and ENG 2388 are recommended sophomore literature classes for English minors.

• **Teacher Certification in English**

(Secondary)

Required Courses 9 hours

- ENG 3319 Introduction to Descriptive Linguistics
 ENG 4325 Composition Techniques
 ENG 4318 Approaches to Literature

Designated Electives 6 hours

Select one course from each sequence:

- 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

Other English Courses 12 hours

Other Requirements

12 advanced hours of English

• **Certification with a Concentration**

Students wishing certification with a concentration in literature, language, English as a Second Language or writing may take additional advanced hours and should consult the offerings listed above for English majors. Students seeking certification or an ESL endorsement must have at least a 2.5 GPA in the content area courses.

◆ **Course Descriptions**

A listing of courses offered by the Department of English can be found on page 282.

HISTORY AND PHILOSOPHY

Dr. Michael Faubion,
Interim Department Chair
Social & Behavioral Sciences Building,
Room 319
Telephone: 956/381-3561
Fax: 956/384-5096
E-mail: mfc83b@panam.edu

► General Overview

The Department of History and Philosophy offers majors in History, Social Studies composite and Philosophy, as well as minors in history and philosophy. In addition, it offers courses for students seeking a second teaching field for teacher certification.

On the graduate level, the department offers a Master of Arts in History and a Master of Arts in Interdisciplinary Studies with a concentration in History. More information is available in the Graduate Catalog.

HISTORY

Full-time Faculty

Adair, Penelope A., *Associate Professor*
Butler, Brian, *Lecturer*
Faubion, Michael L., *Associate Professor*
Garza, Juanita, *Lecturer*
Henggeler, Paul R., *Associate Professor*
McCormack, Brian, *Assistant Professor*
Miller, Christopher L., *Associate Professor*
Prather, Charles, *Assistant Professor*
Rocha, Rodolfo, *Professor*
Salmon, Roberto M., *Professor*
Weaver, Michael K., *Associate Professor*

► General Overview: History

Students majoring or minoring in history may become teachers or seek employment in business or government. History is an excellent background for those who wish to go to law school or enter journalism. The Department of History and Philosophy, in conjunction with the departments of Modern Languages and Literature, Sociology, and Social Work, also offers a BA degree in Latin American Studies and Mexican American Studies.

Beginning history majors are urged to take Civilization Through the Centuries and American Heritage early in their academic careers. Well-prepared students are encouraged to establish credit in some of these beginning courses by passing advanced standing examinations.

The department also welcomes non-history majors who may wish to take courses in Mexican-American heritage, Russian history or a wide assortment of courses in Latin American, American and European history.

► Degree Requirements

◆ Major in History

(with or without Teacher Certification)

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

Core Courses **15 hours**

HIST 2313 American Heritage I*
HIST 2314 American Heritage II*
HIST 2331 Civilization Through the Centuries*
HIST 2332 Civilization Through the Centuries*
HIST 3332 Historiography and Methods

Honors HIST 2387 and HIST 2388 may be substituted for HIST 2313 and HIST 2314.

Designated Electives **21 hours**

6 advanced hours from American history
6 advanced hours from European history
6 advanced hours from Latin American history
3 advanced hours of history from any area
46 hours free electives/minor

TOTAL **124 hours**

◆ Minor in History

Core Courses

9 hours

- HIST 2313 American Heritage I*
 HIST 2314 American Heritage II*
 HIST 2331 Civilization Through the Centuries* *or*
 HIST 2332 Civilization Through the Centuries*

Honors HIST 2387 and HIST 2388 may be substituted for HIST 2313 and HIST 2314.

Other Requirements

Minors must take 9 additional hours, including 6 advanced hours.

• Teacher Certification in History

The following criteria are required of all history majors and minors seeking teacher certification:

- ▶ Students must have a 2.5 cumulative GPA in their history courses.
- ▶ Students must have a "C" or better in each of their history courses.

Secondary Plan I:

Required Courses

- HIST 2313 American Heritage I
 HIST 2314 American Heritage II
 HIST 2331 Civilization Through the Centuries
 HIST 2332 Civilization Through the Centuries
 HIST 3330 A General Survey of the
 History of Texas
 HIST 3332 Historiography & Methods

Secondary Plan II:

24 hours of history, of which 15 hours must be advanced and include 3 advanced hours from each of the three fields: American, Latin American and European history.

Required Courses

- HIST 2313 American Heritage I
 HIST 2314 American Heritage II
 HIST 2331 Civilization Through the Centuries *or*
 HIST 2332 Civilization Through the Centuries
 HIST 3330 A General Survey of the
 History of Texas

• Elementary Plan I, History Specialization

12 hours of history, which must include the courses listed below and 6 advanced hours in history.

Required Courses

- HIST 2331 Civilization Through the Centuries *or*
 HIST 2332 Civilization Through the Centuries
 HIST 3330 A General Survey of the
 History of Texas

• Elementary Plan II, History Specialization

18 hours of history, which must include the courses listed below and 9 advanced hours with 3 hours from each of the American, Latin American and European fields of history.

Required Courses

- HIST 2331 Civilization Through the Centuries *or*
 HIST 2332 Civilization Through the Centuries
 HIST 3330 A General Survey of the
 History of Texas

• Elementary Plan III, Social Studies Specialization

24 hours in social studies. Must include the courses shown below.

Required Courses

- ECO 1301 Introduction to Economics
 ECO 3336 The Political Economy of Mexico
 HIST 3203 Geography and the Environment
 POLS 2313 United States and Texas Government
 and Politics
 POLS 2314 United States and Texas Government
 and Politics

Designated Electives

Select one from the following:

- HIST 3313 American Colonial Era to 1783
 HIST 3324 Formative Period of the American
 Nation, 1783-1840
 HIST 4343 Era of Sectional Conflict, 1840-1877

Select one from the following:

- HIST 4322 The Spanish Southwest to 1821
 HIST 4325 The American Southwest after 1821

Select one from the following:

- HIST 4303 The Emergence of Modern
 America, 1877-1917
 HIST 4313 Twentieth Century America,
 1917 to the Present
 HIST 4395 Special Topics in Historical Study

◆ Major in Social Studies Composite

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 4-8.

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

• Social Studies Courses

Students take 33 hours of required Social Studies classes and 15 hours of designated Social Studies electives.

Required Courses

| | |
|-----------|----------------------------------------------------|
| ECO 2301 | Principles of Economics I |
| ECO 2302 | Principles of Economics II |
| HIST 2313 | American Heritage I |
| HIST 2314 | American Heritage II |
| HIST 2331 | World Civilizations I |
| HIST 2332 | World Civilizations II |
| HIST 3330 | A General Survey of the History of Texas |
| HIST 3303 | Geography and Environment |
| HIST 3332 | Historiography and Methods |
| POLS 2313 | United States and Texas Government and Politics |
| POLS 2314 | United States and Texas Government and Politics |

Designated Electives

Select three hours from:

| | |
|----------|-----------------------------|
| ECO 3351 | Macroeconomic Theory |
| ECO 3352 | Microeconomic Theory |
| ECO 3355 | Economic Development |
| ECO 4359 | History of Economic Thought |

Select three hours from:

| | |
|-----------|-----------------------------------------|
| POLS 3314 | American State and Local Government |
| POLS 3316 | American Public Policy |
| POLS 4332 | American Political Theory |
| POLS 4360 | American Executive Process |
| POLS 4363 | American Legislative Process |
| POLS 4367 | American Judicial Process |
| POLS 4373 | American Political Parties and Politics |

Select nine advanced hours in history. Three hours must be selected from each of the following history fields: American, Latin American, European.

◆ Course Descriptions

A listing of history courses offered by the Department of History and Philosophy can be found on page 290.

PHILOSOPHY

Full-time Faculty

Buckman, Kenneth L., *Associate Professor*
Carter, David K., *Assistant Professor*
Pearson, Thomas D., *Associate Professor*
Welch, Raymond P., *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 study of philosophy can serve many useful purposes, but perhaps the most important are:

► Training in philosophy helps one to think more clearly, more perceptively and more effectively. Regardless of one's personal and occupational goals, and regardless of the projects in which one is interested, being able to think clearly and well about them is an essential tool.

► Study of philosophy uniquely helps one to better understand and appreciate oneself, the world outside and how the two are related. One of the deepest human needs is to make sense of life and one's place in it, and the satisfaction of that need is the central concern of philosophy.

A major in philosophy would provide 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 would provide excellent support for majors in numerous fields, particularly history, government, English, psychology, sociology, math and certain areas in science and business administration.

► Degree Requirements

◆ Major in Philosophy

General Education Requirements **48 hours**
Complete the General Education requirements as shown on pages 91-93 of this catalog.

Core Courses **24 hours**

| | |
|-----------|------------------------------------------------|
| PHIL 1310 | Introduction to Philosophy |
| PHIL 1320 | Introduction to Logic |
| PHIL 2330 | Ethics or |
| PHIL 2350 | Social Philosophy |
| PHIL 3320 | Symbolic Logic or |
| PHIL 4320 | Philosophy of Science |
| PHIL 4310 | Theories of Knowledge or |
| PHIL 4340 | Philosophy of Mind |
| PHIL 3360 | History of Philosophy: Ancient and Medieval |
| PHIL 3361 | History of Philosophy: Modern |
| PHIL 3362 | History of Philosophy: Contemporary |

Designated Electives **12 hours**
Select 12 additional hours of philosophy, at least 9 of which must be advanced.

TOTAL **124 hours**

◆ Minor in Philosophy

18 hours in philosophy, of which 6 hours must be advanced.

Required Courses

| | |
|-----------|-------------------------------|
| PHIL 1310 | Introduction to Philosophy or |
| PHIL 2330 | Ethics |
| PHIL 1320 | Introduction to Logic |

◆ Course Descriptions

A listing of philosophy courses offered by the Department of History and Philosophy can be found on pages 290-323.

GENTER FOR LATIN AMERICAN STUDIES

Dr. Gilbert Cardenas, *Assistant Vice President for International Programs*

Communication Arts & Sciences Building
Room 125
Telephone: 956/381-3572
Fax: 956/316-7012
E-mail: gcardenas@panam.edu

Full-time Faculty

The faculty associated with the Center for Latin American Studies and the Latin American Studies major are drawn from a wide variety of departments and programs throughout the University. A list of all Latin American Studies faculty members is available at the center.

◆ Bachelor of Arts in Latin American Studies

The undergraduate major in Latin American Studies offers students a unique opportunity to combine concentrated work in more than one academic field in preparation for careers in a wide variety of areas. These include government and industry, banking and international commerce, international organizations and agencies, private foundations, journalism and teaching. In addition, the Latin American Studies major provides excellent preparation for advanced study in graduate or professional schools where degree programs are related to Latin American issues.

► Degree Requirements

◆ Major in Latin American Studies

General Education Requirements **48 hours**
Complete the General Education requirements as described in this catalog. It is recommended that students take 6 hours of beginning Spanish to fulfill their General Education language requirement and to

prepare them for the core courses in Spanish. These Spanish courses are either:

- SPAN 1301 Beginning Spanish *and*
- SPAN 1302 Beginning Spanish *or*
- SPAN 1303 Beginning Spanish *and*
- SPAN 1304 Beginning Spanish

Core Courses **15 hours**

- SPAN 2307 Intermediate Spanish for Native Speakers
- SPAN 2308 Intermediate Spanish for Native Speakers

Choose one course from the following: **3 hours**

- HIST 3333 Colonial Mexico, Central America and South America

- HIST 4374 Caribbean and Central America

Choose one course from the following: **3 hours**

- SPAN 3310 Masterpieces of Spanish-American Literature I

- SPAN 3311 Masterpieces of Spanish American Literature II

Choose one course from the following: **3 hours**

- POLS 4383 Politics of Central America and the Caribbean

- POLS 4387 Politics of Mexico

- ANTH 4348 Peoples and Cultures of Mexico

Designated Electives **21 hours**

Concentration in History **9 hours**

Choose three courses from the following group:

- HIST 2363 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

Other Electives **12 hours**

Choose four courses from the following group.

Courses must be taken in at least two different disciplines.

- 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

- ECO 3336 The Political Economy of Mexico

(Prerequisites: ECO 2353 and ECO 2354)

- ENG 3320 Special Topics: Latino Literature

- ENG 4316 Mexican-American Literature

- KIN 2235 Mexican Folkloric Dance

- MUS 1208

/3210 Mariachi Ensemble

- MUS 1308 Mexican Folk Music

- PHIL 3380 Latin American Thought

- POLS 3363 American Hispanic Politics

- POLS 3364 U.S.-Mexico Border Relations

- POLS 4383 Politics of Central America and the Caribbean

- POLS 4386 South American Politics

- POLS 4387 Politics of Mexico

- PSY 4328 Psychological Issues in the Mexican-American Community

- SOC 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

- SPAN 4305 Cervantes

- SPAN 4306 History of the Spanish Language

- SPAN 4307 Spanish-American Novel

- SPAN 4308 Contemporary Spanish Literature

- SPAN 4311 Mexican Literature I

- SPAN 4312 Mexican Literature II

- SPAN 4317 Golden Age Prose (in Spanish)

- SPAN 4318 Theater and Poetry of the Golden Age

- SPAN 4325 Caribbean Literature
 SPAN 4326 Contemporary Spanish-American Literature: A New Era
 SPAN 4329 Mexico's Contemporary Literature
 SPAN 4338 19th Century Spanish Literature
 SPAN 4339 Spanish-American Short Story
 SPAN 4340 Spanish-American Essay

Concentration in Spanish 9 hours

Choose three courses from the following group:

- 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
 SPAN 4305 Cervantes
 SPAN 4306 History of the Spanish Language
 SPAN 4307 Spanish-American Novel
 SPAN 4308 Contemporary Spanish Literature
 SPAN 4311 Mexican Literature I
 SPAN 4312 Mexican Literature II
 SPAN 4317 Golden Age Prose (in Spanish)
 SPAN 4318 Theater and Poetry of the Golden Age
 SPAN 4325 Caribbean Literature
 SPAN 4326 Contemporary Spanish-American Literature: A New Era
 SPAN 4329 Mexico's Contemporary Literature
 SPAN 4338 19th Century Spanish Literature
 SPAN 4339 Spanish-American Short Story
 SPAN 4340 Spanish-American Essay

Other Electives 12 hours

Choose four courses from the following group.

Courses must be taken in at least two different disciplines.

- 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
 ECO 3336 The Political Economy of Mexico
(Prerequisites: ECO 2353 and ECO 2354)
 ENG 3320 Special Topics: Latin Literature
 ENG 4316 Mexican-American Literature
 HIST 2363 Mexican-American Heritage
 HIST 3333 Colonial Mexico, Central America and South America
 HIST 3335 History of Spain
 HIST 4322 Spanish Southwest to 1821
 HIST 4345 Mexico's First Century as an Independent Republic
 HIST 4352 Brazil after Independence
 HIST 4353 History of Mexican Culture
 HIST 4354 Contemporary Mexico
 HIST 4355 Spanish South America Since Independence
 HIST 4363 U.S.-Latin American Relations
 HIST 4374 Caribbean and Central America
 KIN 2235 Mexican Folkloric Dance
 MUS 1208 /3210 Mariachi Ensemble
 MUS 1308 Mexican Folk Music
 PHIL 3380 Latin American Thought
 POLS 3363 American Hispanic Politics
 POLS 3364 U.S.-Mexico Border Relations
 POLS 4383 Politics of Central America and the Caribbean
 POLS 4386 South American Politics
 POLS 4387 Politics of Mexico
 PSY 4328 Psychological Issues in the Mexican-American Community
 SOC 4323 The Mexican-American People

Concentration in Anthropology 9 hours

Choose three courses from the following group:

- 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

Other Electives 12 hours

Choose four courses from the following group.

Courses must be taken in at least two different disciplines.

ART 4351 Latin American Art: Pre-Conquest
 ART 4352 Latin American Art: Post-Conquest
 ECO 3336 The Political Economy of Mexico
 (Prerequisites: ECO 2353 and ECO 2354)
 ENG 3320 Special Topics: Latino Literature
 ENG 4316 Mexican-American Literature
 HIST 2363 Mexican-American Heritage
 HIST 3333 Colonial Mexico, Central America and
 South America
 HIST 3335 History of Spain
 HIST 4322 Spanish Southwest to 1821
 HIST 4345 Mexico's First Century as an
 Independent Republic
 HIST 4352 Brazil After Independence
 HIST 4353 History of Mexican Culture
 HIST 4354 Contemporary Mexico
 HIST 4355 Spanish South America Since
 Independence
 HIST 4363 U.S.-Latin American Relations
 HIST 4374 Caribbean and Central America
 KIN 2235 Mexican Folkloric Dance
 MUS 1208
 /3210 Mariachi Ensemble
 MUS 1308 Mexican Folk Music
 PHIL 3380 Latin American Thought
 POLS 3363 American Hispanic Politics
 POLS 3364 U.S.-Mexico Border Relations
 POLS 4383 Politics of Central America and
 the Caribbean
 POLS 4386 South American Politics
 POLS 4387 Politics of Mexico
 PSY 4328 Psychological Issues in the Mexican-
 American Community
 SOC 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
 SPAN 4305 Cervantes
 SPAN 4306 History of the Spanish Language
 SPAN 4307 Spanish-American Novel

SPAN 4308 Contemporary Spanish Literature
 SPAN 4311 Mexican Literature I
 SPAN 4312 Mexican Literature II
 SPAN 4317 Golden Age Prose (in Spanish)
 SPAN 4318 Theater and Poetry of the Golden Age
 SPAN 4325 Caribbean Literature
 SPAN 4326 Contemporary Spanish-American
 Literature: A New Era
 SPAN 4329 Mexico's Contemporary Literature
 SPAN 4338 19th Century Spanish Literature
 SPAN 4339 Spanish-American Short Story
 SPAN 4340 Spanish-American Essay

Concentration in Political Science 9 hours

Choose three courses from the following group:

POLS 3363 American Hispanic Politics
 POLS 3364 U.S.-Mexico Border Relations
 POLS 4383 Politics of Central America and
 the Caribbean
 POLS 4386 South American Politics
 POLS 4387 Politics of Mexico

Other Electives 12 hours

Choose four courses from the following group.

Courses must be taken in at least two different disciplines.

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
 ECO 3336 The Political Economy of Mexico
 (Prerequisites: ECO 2353 and ECO 2354)
 ENG 3320 Special Topics: Latino Literature
 ENG 4316 Mexican-American Literature
 HIST 2363 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 |
| PSY 4328 | Psychological Issues in the Mexican-American Community |
| SOC 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 |
| SPAN 4305 | Cervantes |
| SPAN 4306 | History of the Spanish Language |
| SPAN 4307 | Spanish-American Novel |
| SPAN 4308 | Contemporary Spanish Literature |
| SPAN 4311 | Mexican Literature I |
| SPAN 4312 | Mexican Literature II |
| SPAN 4317 | Golden Age Prose (in Spanish) |
| SPAN 4318 | Theater and Poetry of the Golden Age |
| SPAN 4325 | Caribbean Literature |
| SPAN 4326 | Contemporary Spanish-American Literature: A New Era |
| SPAN 4329 | Mexico's Contemporary Literature |
| SPAN 4338 | 19th Century Spanish Literature |
| SPAN 4339 | Spanish-American Short Story |
| SPAN 4340 | Spanish-American Essay |

Electives **28 hours**

TOTAL **124 hours**

◆ Minor in Latin American Studies

Required Courses **15 hours**

| | |
|-----------|------------------------------------------|
| SPAN 2307 | Intermediate Spanish for Native Speakers |
|-----------|------------------------------------------|

SPAN 2308 Intermediate Spanish for Native Speakers

Choose one course from the following: **3 hours**

| | |
|-----------|----------------------------------------------------|
| HIST 3333 | Colonial Mexico, Central America and South America |
| HIST 4374 | Caribbean and Central America |

Choose one course from the following: **3 hours**

| | |
|-----------|------------------------------------------------|
| SPAN 3310 | Masterpieces of Spanish-American Literature I |
| SPAN 3311 | Masterpieces of Spanish-American Literature II |

Choose one course from the following: **3 hours**

| | |
|-----------|-----------------------------------------------|
| POLS 4383 | Politics of Central America and the Caribbean |
| POLS 4387 | Politics of Mexico |
| ANTH 4348 | Peoples and Cultures of Mexico |

Other Electives **3 hours**

| | |
|-----------|---------------------------------------------------------------------------|
| ANTH 2323 | Mexican-American Culture |
| ANTH 3368 | Peoples of South America |
| ANTH 3375 | Mexican-American Folklore |
| ANTH 4348 | Peoples and Cultures of Mexico |
| ANTH 4353 | Folklore of the Lower Rio Grande Valley |
| ANTH 4365 | Archaeology of South America |
| ANTH 4369 | Archaeology of Mexico and Central America |
| ART 4351 | Latin American Art: Pre-Conquest |
| ART 4352 | Latin American Art: Post-Conquest |
| ECO 3336 | The Political Economy of Mexico (Prerequisites: ECO 2353 and ECO 2354) |
| ENG 3320 | Special Topics: Latino Literature |
| ENG 4316 | Mexican-American Literature |
| HIST 2363 | Mexican-American Heritage |
| HIST 3333 | Colonial Mexico, Central America and South America |
| HIST 3335 | History of Spain |
| HIST 4322 | Spanish Southwest to 1821 |
| HIST 4345 | Mexico's First Century as an Independent Republic |
| HIST 4352 | Brazil After Independence |
| HIST 4353 | History of Mexican Culture |
| HIST 4354 | Contemporary Mexico |
| HIST 4355 | Spanish South America Since Independence |
| HIST 4363 | U.S.-Latin American Relations |
| HIST 4374 | Caribbean and Central America |
| KIN 2235 | Mexican Folkloric Dance |

- MUS 1208
/3210 Mariachi Ensemble
- MUS 1308 Mexican Folk Music
- PHIL 3380 Latin American Thought
- POLS 3363 American Hispanic Politics
- POLS 3364 U.S.-Mexico Border Relations
- POLS 4383 Politics of Central America and
the Caribbean
- POLS 4386 South American Politics
- POLS 4387 Politics of Mexico
- PSY 4328 Psychological Issues in the Mexican-
American Community
- SOC 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
- SPAN 4305 Cervantes
- SPAN 4306 History of the Spanish Language
- SPAN 4307 Spanish-American Novel
- SPAN 4308 Contemporary Spanish Literature
- SPAN 4311 Mexican Literature I
- SPAN 4312 Mexican Literature II
- SPAN 4317 Golden Age Prose (in Spanish)
- SPAN 4318 Theater and Poetry of the Golden Age
- SPAN 4325 Caribbean Literature
- SPAN 4326 Contemporary Spanish-American
Literature: A New Era
- SPAN 4329 Mexico's Contemporary Literature
- SPAN 4338 19th Century Spanish Literature
- SPAN 4339 Spanish-American Short Story
- SPAN 4340 Spanish-American Essay

◆ Course Descriptions

Descriptions of the courses listed above can be found under their respective headings in the Course Description section beginning on page 231.

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Mexican-American Studies Program

Dr. Michael Faubion, Director

Social & Behavioral Sciences Building,
Room 319
Telephone: 956/381-3561
Fax: 956/384-5096
E-mail: mfc83b@panam.edu

Students who want to major or minor in Mexican-American Studies should consult with the director.

◆ Major in Mexican-American Heritage

The Bachelor of Arts degree in Mexican-American Heritage is an interdisciplinary program taught by the faculty of the departments of History and Philosophy, Psychology and Anthropology, Sociology, and Modern Languages and Literature. The program is designed as a broad field major.

• Major Requirements

HIST 2363 Mexican-American Heritage

Spanish required courses

18 hours

SPAN 2307 Intermediate Spanish
(or equivalent course)

SPAN 2308 Intermediate Spanish
(or equivalent course)

SPAN 3303 Advanced Spanish Composition

SPAN 3330 Spanish Grammar

SPAN 3306 Basic Concepts of Spanish Phonetics
and Phonology

SPAN 4316 Problems and Issues Related to Language

History Required Courses 18 hours

HIST 2331 Civilization Through the Centuries
(or equivalent)
HIST 2332 Civilization Through the Centuries
(or equivalent)
HIST 3330 A General Survey of the History of Texas

Choose 2 from these Latin American courses:

HIST 3333 Colonial Mexico, Central and South America
HIST 4345 Mexico's First Century as an Independent Republic
HIST 4353 History of Mexican Culture
HIST 4354 Contemporary Mexico

Choose 1 from these American History courses:

HIST 4322 The Spanish Southwest to 1821
HIST 4325 The American Southwest After 1821

Choose 1 from these European History courses:

HIST 3341 History of England I, to 1686
HIST 3342 History of England II, after 1686
HIST 4370 The Renaissance and the Reformation, 1300 to 1650
HIST 4376 Revolutionary Europe, 1789-1850

Sociology and Anthropology

Required Courses 24 hours

SOC 1313 Principles of Sociology
SOC 1323 Current Social Issues
ANTH 3375 Mexican-American Folklore
SOC 4323 The Mexican-American People

Choose 1 from the following:

SOC 3301 Methods of Social Research
SOC 4333 Social Theory

Choose 3 from the following:

ANTH 1353 Introduction to Folklore
ANTH 4353 Folklore of the Lower Rio Grande Valley
SOC 4313 American Minorities
SOC 4373 Latin American Society

Additional recommended courses include:

ANTH 1323 Introduction to Cultural Anthropology
ENG 3321 Language and Culture

ENG 4316 Mexican-American Literature
SPAN 3310 Masterpieces in Spanish-American Literature I
SPAN 3311 Masterpieces in Spanish-American Literature II
SPAN 3316 The Mexican Novel
POLS 3360 American Minority Politics

◆ **Minor in Mexican-American Studies**

This is an interdisciplinary program, taught by the faculty of the departments of History and Philosophy, Modern Languages and Literature, English, Psychology and Anthropology, and Political Science, that is aimed at giving students a more appreciable understanding of the heritage of the Mexican-American ancestry and its contributions to the present environment.

The minor in Mexican-American Studies offers excellent support for majors in Spanish and History and students in the College of Social and Behavioral Sciences. It also provides support for students wishing to teach, particularly those at the secondary level or specializing in bilingual education.

The curriculum for this program is divided into two classifications: impact courses, which deal specifically and directly with the Mexican-American, and support courses, which, for the most part, are concerned with Mexico, aspects of its culture and the Spanish language. Programs of study will be influenced by the student's major. Any course may be taken as an elective.

● **Minor Requirements 18 hours**
of which 12 hours must be from core courses.

Core courses 12 hours

Select from the following:

ANTH 2323 Mexican-American Culture
ANTH 3375 Mexican-American Folklore
ANTH 4353 Folklore of Lower Rio Grande Valley
ENG 4316 Mexican-American Literature
HIST 2363 Mexican-American Heritage
HIST 4322 The Spanish Southwest to 1821
POLS 3363 American Hispanic Politics
SOC 4323 The Mexican-American People

Support Courses 6 hours

Select from the following:

HIST 4325 The American Southwest After 1821
HIST 4353 History of Mexican Culture
HIST 4354 Contemporary Mexico
SPAN 3316 The Mexican Novel

MODERN LANGUAGES AND LITERATURE

Dr. Michael Weaver

Interim Department Head

Communication Arts & Sciences Building
Room 329

Telephone: 956/381-3441

Fax: 956/318-5381

E-mail: mwc67f@panam.edu

Full-time Faculty

Ardalani, Elvia G., *Lecturer, Spanish*

Behar, Stella, *Associate Professor, French*

Browne, Peter E., *Associate Professor, Spanish*

Contreras, Victoria, *Associate Professor, Spanish*

Dominguez, Sylvia M., *Professor, Spanish*

Garcia, Carmela, *Lecturer, Spanish*

Kohler, Ninfa, *Lecturer, Spanish*

Martinez, Jose Maria, *Assistant Professor, Spanish*

Mejias, Hugo, *Associate Professor, Spanish*

Rea, Ramiro R., *Associate Professor, Spanish*

Romero, Hector R., *Professor, Spanish*

Vassberg, Liliane M., *Associate Professor, French*

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SPAN 4329 Mexico's Contemporary Literature

SPAN 3310 Masterpieces of Spanish American
Literature I

SPAN 3311 Masterpieces of Spanish American
Literature II

SPAN 4307 Spanish-American Novel

SPAN 4326 Contemporary Spanish-American
Literature: A New Era

SPAN 4336 Grammar and Composition

◆ **Course Descriptions**

Courses offered by the Department of Modern Languages and Literature can be found under their respective headings in the Course Descriptions section beginning on page 233.

► **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 a minor is offered in Spanish and in French. Teacher certification plans in Spanish are available at both the elementary and secondary levels.

The department also offers a graduate program with a major in Spanish leading to the Master of Music and the Master of Arts degree. More information is available in the Graduate Catalog.

► Degree Requirements

◆ Major in Spanish (with certification)

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section of this catalog on pages 91-93 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

ART 1301 or MUS 2307 must be selected.

Core Courses **24 hours**

Select one beginning sequence:

- SPAN 1301 Beginning Spanish *and*
- SPAN 1302 Beginning Spanish *or*
- SPAN 1303 Beginning Spanish *and*
- SPAN 1304 Beginning Spanish *or*
- SPAN 1387 Beginning Spanish (Honors Studies) *and*

SPAN 1388 Beginning Spanish (Honors Studies)

Complete the following:

- SPAN 2307 Intermediate Spanish for Native Speakers
- SPAN 2308 Intermediate Spanish for Native Speakers
- SPAN 3303 Advanced Spanish Composition *or*
- SPAN 3304 Advanced Spanish Composition
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology
- SPAN 3330 Spanish Grammar *or*
- SPAN 4336 Grammar and Composition
- SPAN 4316 Problems and Issues Related to Language

Designated Electives **12 hours**

Select 6 hours from the following:

- SPAN 3301 Spanish Literature (from 1100 to 1750)
- SPAN 3302 Spanish Literature (from 1750 to the Present)
- SPAN 3310 Masterpieces of Spanish-American Literature I

SPAN 3311 Masterpieces of Spanish-American Literature II

Select 6 hours from the following:

- SPAN 3309 Techniques of Literary Analysis
- SPAN 3316 The Mexican Novel
- SPAN 4303 Spanish Civilization
- SPAN 4304 Spanish Lyric Poetry
- SPAN 4305 Cervantes
- SPAN 4306 History of the Spanish Language
- SPAN 4307 Spanish-American Novel
- SPAN 4308 Medieval Spanish Literature
- SPAN 4309 Contemporary Spanish Literature
- SPAN 4311 Mexican Literature I
- SPAN 4318 Theater and Poetry of the Golden Age
- SPAN 4325 Caribbean Literature
- SPAN 4331 Problems in Grammar, Dialects and Language Performance
- SPAN 4338 Nineteenth Century Spanish Literature
- SPAN 4339 The Spanish-American Short Story
- SPAN 4340 The Spanish-American Essay

TOTAL 124 hours

◆ Major in Spanish (without certification)

Same as above excluding SPAN 4316, which may be taken as an elective.

◆ Minor in Spanish (without certification)

18 hours in Spanish, of which 6 hours must be advanced.

◆ Minor in Spanish (with certification)

Elementary Majors and Minors must apply with the school of Education

• Interdisciplinary Studies Elementary Plan I

24 hours of Spanish, of which 9 must be advanced.

Required Courses

Complete one of the following sequences:

- SPAN 1301 Beginning Spanish *and*
- SPAN 1302 Beginning Spanish *or*
- SPAN 1303 Beginning Spanish *and*
- SPAN 1304 Beginning Spanish

Complete all of the following:

- SPAN 2307 Intermediate Spanish for Native Speakers
- SPAN 2308 Intermediate Spanish for Native Speakers
- SPAN 3303 Advanced Spanish Composition *or*
- SPAN 3304 Advanced Spanish Composition
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology
- SPAN 3330 Spanish Grammar *or*
- SPAN 4336 Grammar and Composition

• **Elementary Plan II**

24 hours of Spanish, of which 12 must be advanced.

Required Courses

Complete one of the following sequences:

- SPAN 1301 Beginning Spanish *and*
- SPAN 1302 Beginning Spanish *or*
- SPAN 1303 Beginning Spanish *and*
- SPAN 1304 Beginning Spanish

Complete all of the following:

- SPAN 2307 Intermediate Spanish for Native Speakers
- SPAN 2308 Intermediate Spanish for Native Speakers
- SPAN 3303 Advanced Spanish Composition *or*
- SPAN 3304 Advanced Spanish Composition
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology
- SPAN 3330 Spanish Grammar *or*
- SPAN 4336 Grammar and Composition
- SPAN 4303 Spanish Civilization

• **Secondary Plan I**

24 hours of Spanish, of which 12 must be advanced.

Required Courses

Complete one of the following sequences:

- SPAN 1301 Beginning Spanish *and*
- SPAN 1302 Beginning Spanish *or*
- SPAN 1303 Beginning Spanish *and*
- SPAN 1304 Beginning Spanish

Complete all of the following:

- SPAN 2307 Intermediate Spanish for Native Speakers
- SPAN 2308 Intermediate Spanish for Native Speakers
- SPAN 3303 Advanced Spanish Composition *or*

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- SPAN 3304 Advanced Spanish Composition
- SPAN 3306 Basic Concepts of Spanish Phonetics and Phonology
- SPAN 3330 Spanish Grammar *or*
- SPAN 4336 Grammar and Composition
- SPAN 4316 Problems and Issues Related to Language

◆ **Minor in French (without certification)**

18 hours, of which 6 must be advanced and among the following: FREN 3321, FREN 3322 and FREN 4322, FREN 4324, FREN 4325 or FREN 4339.

◆ **Minor in French (with teacher certification)**

24 hours, of which 12 must be advanced and among the following: FREN 3321, FREN 3322 and FREN 4322, FREN 4324, FREN 4325 or FREN 4339.

◆ **Course Descriptions**

Courses offered by the Department of Modern Languages and Literature can be found under their respective headings in the Course Descriptions section beginning on page 233.

MUSIC

Dr. Dahlia Guerra, *Department Chair*

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

Full-time Faculty

Canty, Dean R., *Associate Professor*
Crews, Ruth, *Associate Professor*
Dabrowski, Peter, *Assistant Professor*
Davis, Richard, *Assistant Professor*
Gassler, Christopher, *Lecturer*
Grossman, Morley K., *Associate Professor*
Guerra, Dahlia, *Associate Professor*
Mizener, Charlotte, *Associate Professor*
Munn, Christopher, *Professor*
Munn, Vivian, *Associate Professor*
O'Neil, Lorne William, *Associate Professor*
Raimo, John, *Professor*
Smith, Brent, *Lecturer*
Smolensky, Marcus, *Assistant Professor*
Tucker, Wallace E., *Professor*

► General Overview: Music

The Department of Music offers a major within the Bachelor of Arts degree and minors in Applied Music and in Teacher Certification. In addition, it offers teaching fields for majors in both secondary and 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, Master of Arts in Interdisciplinary Studies degree with a concentration in Music (MAIS-Music). More information is available in the Graduate Catalog.

► Degree Requirements

Departmental Requirements

A grade of "C" or higher in each required course in music is necessary for that course to apply toward a degree with a major in music.

Transfer students may be required to validate (by examination) credits earned in Applied Music and Music Theory at other institutions. Failure to pass validation will result in the repetition of courses required to reach proper standards.

Precise definition of standards is provided by the department, and examination in Applied Music is before a faculty jury.

Music majors and music minors must enroll in piano until the piano proficiency examination has been passed. The piano proficiency examination must be passed as a prerequisite to enrolling in upper-level music courses. Transfer students are required to pass the department's piano proficiency examination, regardless of the number of transfer hours.

Each full-time music major must be a member of the large ensemble of his/her area of concentration each semester during which he/she is enrolled, or a minimum of seven semesters. These assignments are as follows: Wind and Percussion-Band; Strings-Orchestra; Voice, Piano-Choir; Guitar-Guitar Ensemble. Pianists and others who play appropriate instruments with sufficient proficiency may use Band or Orchestra for their ensemble requirements. Participation in smaller ensembles is strongly encouraged.

A music major who selects the performance curriculum will perform a 30-minute public recital during the junior year and an hour-long public recital during the senior year. A music major who selects the teacher preparation curriculum will prepare one-half of a music recital during the senior year, and, at the discretion of a faculty committee, perform it in public.

Music majors will study privately in their areas of concentration during each semester they are enrolled full-time (12 hours or more). Music majors enrolled in Applied Music will enroll in Applied Music Lab and attend University concerts and recitals as a part of the course requirement. Examinations in Applied Music are given at the end of each semester before a jury of music faculty members. Students enrolled in Applied Music will appear in recitals at the discretion of their instructor.

◆ Major in Music (Applied Music)

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

Core Courses **30 hours**

| | |
|----------|-----------------------------|
| MUS 1313 | First Year Music Theory I |
| MUS 1314 | First Year Music Theory II |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |
| MUS 2313 | Second Year Music Theory I |
| MUS 2314 | Second Year Music Theory II |
| MUS 3301 | History of Music |
| MUS 3302 | History of Music |
| MUS 3207 | Conducting I |
| MUS 4201 | Form and Analysis |
| MUS 4203 | Orchestration and Arranging |

Select 13 hours of additional advanced music courses.

Designated Electives

Applied Music **24 hours**

8 semesters minimum, of which 4 semesters must be advanced

Music Ensemble **8 hours**

8 semesters minimum, of which 4 semesters must be advanced

Other Requirements

Proficiency in piano

One 30-minute Junior Recital

An hour-long Senior Recital

A total of 81 hours in Music, of which 51 must be advanced

NOTE: A minor is not required.

TOTAL **129 hours**

◆ Requirements for All-Level Teacher Certification

General Education Requirements **48 hours**

Complete the General Education Requirements as shown on pages 91-93 of this catalog.

Core Courses

35 hours

| | |
|----------|--------------------------------|
| MUS 1313 | First Year Music Theory I |
| MUS 1314 | First Year Music Theory II |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |
| MUS 2313 | Second Year Music Theory I |
| MUS 2314 | Second Year Music Theory II |
| MUS 3301 | History of Music |
| MUS 3302 | History of Music |
| MUS 3207 | Conducting I |
| MUS 3312 | Essential Elements of Music II |
| MUS 4201 | Form and Analysis |
| MUS 4203 | Orchestration and Arranging |
| MUS 4208 | Conducting II |

Designated Electives

Select 3 of the following:

| | |
|----------|-------------------|
| MUS 2120 | Vocal Diction |
| MUS 2122 | Class Percussion |
| MUS 2123 | Class Brass |
| MUS 2124 | Class Woodwinds |
| MUS 2125 | Class Strings |
| MUS 2127 | Song Literature |
| MUS 3121 | Vocal Diagnosis* |
| MUS 3122 | Choral Repertoire |

*Required for students with a major instrument of voice or piano.

Applied Music

8 semesters minimum, of which 4 semesters must be advanced

Music Ensemble

7 semesters minimum, of which 3 semesters must be advanced

Professional Development

| | |
|-----------|------------------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4302 | Educational Psychology |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4308 | Advanced Secondary Curriculum: Internship I |
| EDCI 4699 | Internship — All Levels |
| READ 4351 | Developmental Reading in Secondary Schools |

Other Requirements

Proficiency in piano

Senior Recital

A total of 60 hours in music, of which 30 hours must be advanced

NOTE: A second teaching field is not required.

TOTAL **130 hours**

◆ **Requirements for Secondary Level Teacher Certification:**

General Education Requirements **48 hours**

Complete the General Education Requirements as shown on pages 91-93 of this catalog.

Core Courses **35 hours**

| | |
|----------|--------------------------------|
| MUS 1313 | First Year Music Theory I |
| MUS 1314 | First Year Music Theory II |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |
| MUS 2313 | Second Year Music Theory I |
| MUS 2314 | Second Year Music Theory II |
| MUS 3301 | History of Music |
| MUS 3302 | History of Music |
| MUS 3207 | Conducting I |
| MUS 3312 | Essential Elements of Music II |
| MUS 4201 | Form and Analysis |
| MUS 4203 | Orchestration and Arranging |
| MUS 4208 | Conducting II |

Designated Electives

Select 3 of the following:

| | |
|----------|---------------------------------|
| MUS 2120 | Vocal Diction |
| MUS 2122 | Class Percussion |
| MUS 2123 | Class Brass |
| MUS 2124 | Class Woodwinds |
| MUS 2125 | Class Strings |
| MUS 2127 | Song Literature |
| MUS 2128 | Introduction to Music Education |
| MUS 3121 | Vocal Diagnosis* |
| MUS 3122 | Choral Repertoire |

*Required for students with a major instrument of voice or piano.

Applied Music

8 semesters minimum, of which 4 semesters must be advanced

Music Ensemble

7 semesters minimum, of which 3 semesters must be advanced

Professional Development

| | |
|-----------|---------------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4302 | Educational Psychology |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4308 | Advanced Secondary Curriculum: Internship I |
| EDCI 4641 | Secondary Internship II |

Other Requirements

Proficiency in piano

Senior Recital

A total of 60 hours in music, of which 28-30 hours must be advanced

NOTE: A second teaching field is not required.

TOTAL **129 hours**

◆ **Minor in Music-Applied Music**

Core Courses **12 hours**

| | |
|----------|----------------------------|
| MUS 1313 | First Year Music Theory I |
| MUS 1314 | First Year Music Theory II |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |

Advanced Electives **6 hours**

Applied Music **8 hours**

4 semesters

Music Ensemble **4 hours**

4 semesters

Other Requirement

Proficiency in piano

Total: **30 hours**

◆ **Minor in Music-Elementary Level Teacher Certification**

Core Courses **15 hours**

| | |
|----------|--------------------------------|
| MUS 1313 | First Year Music Theory I |
| MUS 1314 | First Year Music Theory II |
| MUS 2301 | Music Literature I |
| MUS 2302 | Music Literature II |
| MUS 3312 | Essential Elements of Music II |

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Designated Electives

15 hours

Select 3 of the following:

- MUS 2120 Vocal Diction
- MUS 2122 Class Percussion
- MUS 2123 Class Brass
- MUS 2124 Class Woodwinds
- MUS 2125 Class Strings
- MUS 2127 Song Literature
- MUS 2128 Introduction to Music Education
- MUS 3121 Vocal Diagnosis*
- MUS 3122 Choral Repertoire

*Required for students with a major instrument of voice or piano.

Applied Music

8 hours

- 4 hours lower division over two semesters
- 4 hours upper division over two semesters

Music Ensemble

4 hours

- 2 hours lower division
- 2 hours upper division

Total

30 hours

Other Required Courses

18 hours

- ENG 4321 Fundamentals of Language Learning
- HLTH 1354 Safety and First Aid

- MATH 2306 Foundations of Mathematics I
- MATH 2307 Foundations of Mathematics II
- READ 3323 Reading Acquisition
- READ 3325 Cognitive Development and Reading Comprehension

Professional Development Courses

21 hours

- EDCI 4301 Foundations of Education
- EDCI 4302 Educational Psychology
- EDCI 4305 Instructional Planning and Curriculum Development
- EDCI 4306 Instructional Methodology and Classroom Management
- EDCI 4611 Directed Teaching-Elementary or
- EDCI 4310 Directed Teaching-ESL and
- EDCI 4311 Directed Teaching-Elementary or
- EDCI 4311 Directed Teaching-Elementary and
- EDCI 4312 Directed Teaching-Early Childhood
- READ 4351 Developmental Reading in Secondary Schools

Other Requirements

Proficiency in piano

◆ Course Descriptions

A listing of courses offered by the Department of Music can be found on page 311.

College of Business Administration

► General Overview

The College of Business Administration (COBA) at The University of Texas-Pan American has 49 full-time faculty who serve 2,250 Bachelor of Business Administration (BBA), Master of Business Administration (MBA) and doctoral students. The undergraduate and master's programs are fully accredited by AACSB International. COBA is currently seeking initial accreditation for its Doctor of Philosophy (Ph.D.) degree in Business Administration.

► Academic Programs

The COBA is organized into four departments: the Department of Accounting and Business Law, the Department of Computer Information Systems and Quantitative Methods, the Department of Economics and Finance, and the Department of Management, Marketing and International Business. The assistant dean, four department chairpersons, the director of undergraduate studies and the directors of the MBA and doctoral programs assist the dean in coordinating the academic activities of the college.

The Neuhaus Center is committed to advancing the scholarship of entrepreneurship, and the Center for Tourism Research is devoted to meeting regional needs.

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Dr. John T. Emery, Dean

Business Administration Building

Room 114

1201 West University Drive

Edinburg, Texas 78541-2999

Telephone: 956/381-3311

Fax: 956/381-3312

E-mail: emery@panam.edu

On the web: <http://www.coba.panam.edu/>

Dr. Evelyn Hume, Assistant Dean

Business Administration Building

Room 114

Telephone: 956/381-3311

Fax: 956/381-3312

E-mail: ehume@panam.edu

► **Vision, Mission and Philosophy**

As the College of Business Administration engages in the process of continuous improvement, we are committed to achieving goals and objectives of our vision, mission, and philosophy statements as follows:

◆ **Vision**

The College of Business Administration at The University of Texas-Pan American will serve as the synergistic educational center for the Rio Grande Valley for education in business and management. The doctoral program will achieve international recognition for its global perspective and for its contribution to the field of knowledge encompassing international business and North American Trilateral business practices. The undergraduate and MBA programs will receive regional and state recognition for excellence in teaching, applied research and service to the business community. The College will receive international recognition for creating a stimulating, bicultural environment where diversity and academic excellence coexist.

◆ **Mission**

The mission of the College of Business Administration at The University of Texas-Pan American is to:

- ▶ Develop business and academic leaders who are qualified and committed to the improvement of the society,
- ▶ Produce scholarly research relevant to domestic and global business.
- ▶ Support professional, community and university activities that contribute to economic progress, social improvement and intellectual development.

◆ **Philosophy**

Through the process of continuous improvement, the College of Business Administration supports the mission of The University of Texas-Pan American by providing well-balanced, high quality education for undergraduate and graduate students and by providing solutions to business problems through research and community service.

Involvement in research ensures that both students and faculty continue to be current in their disciplines and fosters the advancement of knowledge. The college promotes and produces research that mirrors current issues of business organizations and society,

including topics from cross-discipline and cross-cultural perspectives that are appropriate to international business. Faculty intellectual contributions are encouraged in applied scholarship, basic scholarship and instructional development.

Located in the ethnically diverse region along the U.S.-Mexico border, the college uses the social, bicultural, scientific and technical resources unique to South Texas to enrich its educational, outreach and research programs. The college is responsive to the needs of South Texas and the bicultural national community it serves and seeks to develop and strengthen partnerships with these external constituents. The college also fosters cooperative interactions with institutions of higher education throughout the world, with a special emphasis on Mexico and Latin America.

The local economy depends primarily upon agriculture, tourism, trade and government activities. Significant growth is occurring in the manufacturing sector as a result of continued growth and industrial activity along the Texas-Mexico border and the North American Free Trade Agreement. These factors have caused the College of Business Administration to develop programs and curricula that recognize this dynamic and unique situation.

The University of Texas-Pan American is committed to perpetuating the best of American cultural heritage and blending it with the outstanding features of Latin American culture. The academic programs of the College of Business Administration support this philosophy by offering its students a broad foundation in the liberal arts and sciences followed by professional business curricula. Students are afforded the opportunity to acquire skills necessary for success in business and society while simultaneously developing a global awareness and an appreciation for the unique characteristics of the University and its constituents. As a professional college, specific attention is given to the following educational objectives:

- ▶ to develop critical thinking and logical problem-solving skills;
- ▶ to develop professional attitudes and an appreciation for the role of business in a free enterprise economy;
- ▶ to develop basic quantitative and analytical skills;
- ▶ to develop written and oral communication skills;

- ▶ to develop a global awareness and appreciation for cultural diversity; and
- ▶ to develop ethical decision-making skills.

The regional nature of the University and its obligation to serve the needs of the Lower Rio Grande Valley are recognized and emphasized in the research and service functions of the college. The college conducts research for state, county and city agencies and private firms. Additionally, the college holds or sponsors short courses, seminars and workshops for business and governmental agencies. These non-credit programs have served thousands of people in the Valley and have provided opportunities for students to work for and with the business community.

◆ Graduate Programs

The college provides the opportunity for advanced study leading to the Master of Business Administration (MBA) degree and Doctor of Philosophy (Ph.D.) degree.

The MBA program is designed for those who wish to pursue advanced study in a multicultural environment as a means of enhancing their business and administrative careers. Both full- and part-time students enroll in the regular MBA program.

The Professional MBA allows students to complete the program in two years by attending classes on Saturday only. The Professional MBA is designed to accommodate executives and professionals who wish to pursue a graduate business education while maintaining full-time employment.

The Ph.D. in Business Administration with an emphasis in International Business adds the dimension of basic research to the college's mission. The degree serves the population of the South Texas region and the State of Texas by:

- ▶ offering graduates the opportunity to prepare to assume faculty positions in state or regional universities or to fill management roles in the private sector or in government service;
- ▶ developing a center for the study of international business, especially as it relates to rising trade expectations among North, Central and South American countries and the global business environment;
- ▶ strengthening itself as a research, teaching and service unit dedicated to the economic, social and cultural growth of the Rio Grande region; and
- ▶ producing quality graduates, which includes

becoming the leading producer in the nation of Hispanic-Americans with business doctoral qualification.

NOTE: More information on graduate programs may be found in the Graduate Catalog.

◆ Student Organizations

A total university experience includes providing students with the opportunity to develop leadership skills, to become part of the decision-making process and to create linkages with the business community. To that end, the following fraternities and student chapters of professional organizations are sponsored:

- ▶ Alpha Kappa Psi, a professional fraternity
- ▶ Beta Gamma Sigma, a national honor fraternity for business administration majors
- ▶ Association of Information Technology Professionals
- ▶ Human Resource Management Society
- ▶ Financial Management Association
- ▶ American Marketing Association
- ▶ Accounting Society
- ▶ MBA Association
- ▶ Forum for International Relations and Business
- ▶ Students in Free Enterprise
- ▶ Entrepreneurship Club

◆ 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.

Center for Advisement, Recruitment, Internships and Retention (CARIR) Internships that lead to careers and job placement are handled by Victor Huerta, director, Business Administration Building, Room 120B, telephone 956/381-3355. Or contact Career Placement Services, Student Services Building, Room 147, telephone 956/381-2243. The University Retention Advisement Program (URAP) maintains an office in the College of Business Administration. The Student Development Specialist for Business Administration Students, Olga Martinez, can be reached by calling 956/316-7965.

◆ Minor in Business Administration

A minor in business administration is designed to help make students with non-business majors more marketable upon graduation. This minor complements such degree programs as engineering, health care, nursing, counseling and communication.

The minor in business administration consists of the following courses:

| | |
|-----------|------------------------------------------------------|
| ACC 2329 | Fundamentals of Managerial Accounting |
| ACC 2421 | Introduction to Financial Accounting |
| ECON 2301 | Principles of Economics II |
| MANA 3361 | Principles of Management and Organizational Behavior |
| MARK 3371 | Principles of Marketing |
| FINA 3383 | Managerial Finance |

TOTAL **19 hours**

◆ Minor in Human Resource Management

A minor in Human Resource Management (HRM) is designed to help complement many students' majors, making them more marketable upon graduation. Majors such as psychology, communication, nursing, counseling, engineering and political science may be especially interested in complementing their major with a minor in HRM. The minor in HRM consists of the following courses:

Human Resource Management Specialization 15 hours

| | |
|-----------|-----------------------------------------|
| MANA 3362 | Personnel Management |
| MANA 3365 | Wages and Salary Administration |
| MANA 3366 | Recruitment and Selection |
| MANA 3367 | Organizational Training and Development |
| MANA 4361 | Human Behavior in Organizations |

Human Resource Management Electives 3 hours

Select three hours from:

| | |
|-----------|-------------------------------|
| MANA 3300 | Internship in Management* |
| MANA 3335 | Organizational Communications |
| MANA 4368 | Industrial Relations |

TOTAL **18 hours**

Contact either Dr. William Thompson, Director of Undergraduate Programs, College of Business Administration, Room 120C, 956/381-2827, or Dr. Linda Matthews, Assistant Professor of Management, Room

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222F, 956/381-3382, for further information.

*Must involve a position in HRM.

◆ Minor in Entrepreneurship

A minor in entrepreneurship serves as an ideal complement for economic students wishing to start and successfully operate a small business upon graduation. The minor in entrepreneurship also meets the minor requirement for the Bachelor of Arts in Economics, as well as for non-business degrees. The program particularly caters to understanding small business operations in the Lower Rio Grande Valley.

The minor in entrepreneurship consists of 18 hours from the following courses:**

| | |
|-----------|-------------------------------------|
| ECON 3359 | Family and the Small Business |
| ECON 3360 | Managerial Economics |
| FINA 3391 | Small Business Financial Management |
| FINA 3393 | Entrepreneurial Finance |
| CIS 3380 | Small Business Technology |
| MANA 4362 | Small Business Venture |
| MANA 4366 | Small Business Management |
| ECON 4362 | Global Entrepreneurship |

TOTAL **18 hours**

** Non-business students wishing to minor in entrepreneurship must also take ACC 2421, and MANA 3361 and 3 hours of Economics as prerequisites to the entrepreneurship courses.

► **Bachelor of Business Administration**

◆ **General requirement for graduation**

All students seeking a BBA from the College of Business Administration must take at least 50 percent of their business courses at UT Pan American.

Degree applicability of coursework from business programs that are not accredited by the American Assembly of Collegiate Schools of Business (AACSB)-The International Association for Management Education must be determined through appropriate validation procedures and/or examination. Final approval of non-AACSB accredited coursework will be by the department chair or dean of the College of Business Administration.

◆ **Transfer Credit-Verification**

Any upper-division business course taken at a non-AACSB-accredited school must be validated before it will be applied to satisfy graduation requirements for business degrees at UTPA.

Validation may be accomplished by:

1. taking a higher-level course in the same subject area and making a grade of "C" or better,
2. retaking the course.

Contact Dr. William Thompson, Director of Undergraduate Programs, College of Business Administration, Room 120C, 956/381-2827, for further information.

Communication Skills Certification

Students receiving a degree from the College of Business Administration may participate in a communication skills certification program.

Contact Margaret Allison, Director of Communication Skills, Business Administration Building, Room 120A, telephone 956/381-3360, for further information.

ACCOUNTING & BUSINESS LAW

Dr. Wig De Merville, Department Chair

Business Administration Building
Room 220

Telephone: 956/381-2406

Fax: 956/381-2407

E-mail: dr_de2002@hotmail.com

Full-time Faculty

Atamian, Rubik, *Assistant Professor, Accounting*
Darcy, John, *Assistant Professor, Accounting*
DeMerville, Wig B., *Professor, Accounting*
Ganguli, Gouranga, *Professor, Accounting*
Hume, Evelyn, *Associate Professor, Accounting*
Jarvis, Susan S., *Professor, Business Law*
Landry, Raymond M., *Associate Professor, Accounting*
Lin, Ping, *Assistant Professor, Accounting*
Moyes, Glen, *Associate Professor, Accounting*
Neipert, David, *Assistant Professor, Business Law*
Owusu-Ansah, Stephen,
Assistant Professor, Accounting
Walker, Edward R., *Assistant Professor, Accounting*

► **Mission**

The Department of Accounting and Business Law contributes to the mission of the College of Business Administration by providing outstanding instruction at the undergraduate and graduate levels, by fostering meaningful intellectual contributions, and by actively participating in service to the components of the University and to the legal and accounting professions.

► **General Overview**

The Department of Accounting and Business Law offers the Bachelor of Business Administration (BBA) degree with a major in accounting. A major in accounting is designed to prepare graduates for entry-level positions in both private and public accounting. The degree partially prepares a graduate to take each of the accounting certification examinations: CPA, CMA and CIA, depending on the graduate's interest.

Since each examination is 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. An accounting specialization is available at the MBA level.

The coursework leading to the BBA degree in accounting is classified as follows:

| | |
|-----------------------------------|------------------|
| A. General Education Requirements | 48 hours |
| B. Business Foundation Courses | 20 hours |
| C. Business Core Courses | 33 hours |
| D. Specialization (Major) Courses | 24 hours |
| Total | 125 hours |

► Major in Accounting

◆ Admission Requirements

Admission into the accounting major involves two steps. First, all students desiring an accounting degree must initially specify "Pre-Accounting" as their major. This designation is effective for all students changing majors, transfer students, special students and entering freshmen. Second, the student then applies to the Department of Accounting and Business Law for a change to "Accounting" major status when the following guidelines are met:

1. Applicants must be in good academic standing (non-probationary status).
2. Applicants must have completed at the time of application at least 10 hours of accounting, including ACC 2421, 2329 and 3321, with a grade point average of 2.2 for all accounting courses taken at the time of application.

Admission of the applicant to the accounting major will be determined by the chair of the Department of Accounting and Business Law or his or her designated representative(s). Students who have been denied admission to the accounting program may appeal to the dean of the College of Business Administration according to the appeal requirements.

◆ Degree Requirements

In addition to having completed the General Education and Business Foundation courses and the Business Core requirements, accounting majors must have an average grade point of at least 2.5 in all accounting courses taken in order to graduate. Prerequisites cannot be repeated if the subsequent

higher-level course has been completed.

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown below.

Section A. Science and Mathematics

Group 2. Mathematics

Students must select MATH 1321 or Math 1340.

Section B. Computer Literacy

CIS 1201

May take CIS 1301 to satisfy core and business foundation.

Section C. Social Sciences

Group 3. Other Social Sciences

Students must select ECON 2301.

Business Foundation **20 hours**

| | |
|-----------|--------------------------------------------------|
| ACC 2421 | Introduction to Financial Accounting |
| ACC 2329 | Fundamentals of Managerial Accounting |
| CIS 1101 | Introduction to Office Software |
| ECON 2302 | Principles of Economics II |
| MANA 1331 | Introduction to Business |
| MATH 1322 | Business Calculus <i>or</i> |
| QUMT 2340 | Introduction to Quantitative Methods in Business |
| COMM 1303 | Presentational Speaking |

Business Core **33 hours**

| | |
|-----------|------------------------------------------------------|
| BLAW 3337 | Business Law I |
| CIS 3390 | Management Information Systems |
| FINA 3383 | Managerial Finance |
| INTB 3330 | International Business |
| MANA 3335 | Organizational Communication |
| MANA 3361 | Principles of Management and Organizational Behavior |
| MANA 4363 | Production Management |
| MANA 4369 | Strategic Management |
| MARK 3371 | Principles of Marketing |
| QUMT 2341 | Elementary Business and Economic Statistics |
| QUMT 3342 | Intermediate Business and Economic Statistics |

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NOTE: Before being allowed to enroll in 3000- or 4000-level business courses, a student must

1. Complete the following courses: ACC 2421, ACC 2329, CIS 1201 and 1101, ECON 2301, ECON 2302
2. Satisfy the following minimum grade requirements:

- a. attain a grade of "C" or better in each course, or
- b. attain a GPA of 2.25 or higher for the six courses.

Accounting Specialization 24 hours

NOTE: A student must attain a GPA of 2.2 or higher in ACC 2421, ACC 2329 and ACC 3321 before being allowed to enroll in any other 3000- or 4000-level accounting course.

Required Courses 21 hours

| | |
|----------|---------------------------------------|
| ACC 3320 | Cost Accounting |
| ACC 3321 | Intermediate Accounting I |
| ACC 3322 | Intermediate Accounting II |
| ACC 3323 | Income Tax Procedure |
| ACC 3327 | Fundamentals of Auditing |
| ACC 3329 | Intermediate Accounting III |
| ACC 4330 | Advanced Accounting I (Consolidation) |

Accounting Elective 3 hours

| | |
|----------|------------------------------------|
| ACC 3325 | Fund Accounting |
| ACC 3326 | Accounting Information System |
| ACC 3350 | International Accounting |
| ACC 4323 | Contemporary Accounting Theory |
| ACC 4327 | Advanced Auditing |
| ACC 4329 | Corporate and Partnership Taxation |
| ACC 4331 | Advanced Accounting II |

| | |
|-----------|------------------------------|
| ACC 4332 | Advanced Income Tax Research |
| ACC 4333 | Estate and Gift Taxation |
| BLAW 3358 | Business Law II |

TOTAL 125 hours

◆ 150-Hour Program for Potential Certified Public Accountants

Students who are interested in being licensed as a Certified Public Accountant (CPA) in the State of Texas must complete at least 150 hours in order to be eligible to take the CPA examination. If the student desires to meet this requirement at the undergraduate level, the student should complete the accounting major as shown above and the additional curriculum shown below. Comparable courses may be substituted with prior approval by the department.

Additional Courses Recommended for Those Desiring to Take the CPA Examination

| | |
|----------------------------------------------------------------------------|-----------------|
| Accounting Electives | 24 hours |
| Other additional courses in area of specialization (i.e., Business Law II) | 3 hours |

The student should check the State Board Requirements in the state he or she selects for the CPA examination.

◆ Course Descriptions

A listing of courses offered by the Department of Accounting and Business Law can be found on 233 and 246.

COMPUTER INFORMATION SYSTEMS & QUANTITATIVE METHODS

Dr. Lester M. Rydl, *Department Chair*

Math and General Purpose Classroom
Building (MAGC), Room 3.306
Telephone: 956/381-3353
Fax: 956-381-3367
E-mail: lrydl@panam.edu
Web: <http://coba.panam.edu/cis>

Full-time Faculty

Allison, Margaret R., *Assistant Professor,
Computer Information Systems; Director of
Communication Skills*
Crews, R. Michael, *Associate Professor,
Computer Information Systems*
Feinberg, Martin, *Assistant Professor,
Quantitative Methods*
Hodges, DeWayne L., *Assistant Professor,
Quantitative Methods*
Johnk, David, *Lecturer, Quantitative Methods*
Rao, Mohan, *Associate Professor,
Computer Information Systems*
Roge, Joseph, *Associate Professor,
Computer Information Systems*
Rydl, Lester M., *Associate Professor,
Computer Information Systems
and Quantitative Methods, Chairman*
Shell, Richard, *Lecturer, Quantitative Methods*
Villarreal, Marco, *Lecturer, Computer
Information Systems*
Vinaja, Robert, *Assistant Professor,
Computer Information Systems*
Vincent, Vern C., *Professor, Quantitative Methods;
Director of Tourism Research*

► General Overview

The Department of Computer Information Systems and Quantitative Methods offers a Bachelor of Business Administration 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 computer 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 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

The Department of Computer Information Systems and Quantitative Methods contributes to the College of Business Administration: by providing students a quality broad-based business education with a computer information systems emphasis; by preparing students with the necessary analytical, technical, and managerial skills; and by developing students' abilities and desires to continue learning so that they may compete effectively in the global workplace.

◆ Degree Requirements

The coursework leading to the BBA degree is classified as follows:

| | |
|-----------------------------------|----------|
| A. General Education Requirements | 48 hours |
| B. Business Foundation Courses | 17 hours |
| C. Business Core Courses | 33 hours |
| D. CIS Major | 27 hours |

| | |
|--------------|------------------|
| Total | 125 hours |
|--------------|------------------|

NOTE: Students should file an official degree plan after earning 60 hours. An official degree plan must be filed before an application for graduation will be processed.

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown unless ALL of core is completed elsewhere.

Section A. Humanities

Group 4. Other Humanities

Area 2. Philosophy and Modern or Classical Language

PHIL 1320

Section B. Science and Mathematics

Group 2. Mathematics

MATH 1321 or MATH 1340.

Section C. Computer Literacy

CIS 1201 Students have the option to take CIS 1301 to satisfy CIS 1201 and CIS 1101.

Section E. Social Sciences

Group 3. Other Social Sciences

ECON 2301.

Business Foundation **17 hours**

These 20 hours do not include ECON 2301 or the 2 hours of computer literacy included in the core.

ACC 2421 Introduction to Financial Accounting

ACC 2329 Fundamentals of Managerial Accounting

CIS 1101 Introduction to Office Software

ECON 2302 Principles of Economics II

MATH 1322 Business Calculus or

QUMT 2340 Introduction to Quantitative Methods in Business

COMM 1303 Presentational Speaking

Business Major **33 hours**

BLAW 3337 Business Law I

CIS 3390 Management Information Systems

FINA 3383 Managerial Finance

INTB 3330 International Business

MANA 3335 Organizational Communications

MANA 3361 Principles of Management and Organizational Behavior

MANA 4363 Production Management

MANA 4369 Strategic Management

MARK 3371 Principles of Marketing

QUMT 2341 Elementary Business and Economic Statistics

QUMT 3342 Intermediate Business and Economic Statistics

General Education, Business Foundation and Business Core Requirements **98 hours**

Computer Information Systems Major **27 hours** Required Courses

CIS 2308 Introduction to Programming with Visual Basic

CIS 2310 COBOL Programming

CIS 3335 Database Management

CIS 3336 Systems Analysis

CIS 3338 Networking

CIS 4336 Systems Design and Development

Elective Courses

Select 3 from the following list of courses. Selection must include CIS 3308 or CIS 3310.

CIS 3300 Internship in CIS

CIS 3308 Advanced Programming with Visual Basic

CIS 3310 Advanced Programming Techniques

CIS 3312 Introduction to Web Programming

CIS 4308 Information Resource Management

CIS 4312 Application Development for Commerce

TOTAL 125 hours

◆ Minor in Computer Information Systems (for non-business majors)

ACC 2421 Introduction to Financial Accounting
MANA 3361 Principles of Management and Organizational Behavior

CIS 2308 Introduction to Programming with Visual Basic

CIS 2310 COBOL Programming

CIS Electives (6 advanced hours)

TOTAL 19 hours

◆ Teacher Certification in Computer Information Systems

Certification can be obtained through alternative certification or through the Computer Science Department.

◆ Course Descriptions

A listing of courses offered by the Department of Computer Information Systems and Quantitative Methods can be found on page 249 (CIS) and 333 (QUMT). Other ISQM, MIS, QUMT courses can be found in the Graduate Catalog.

ECONOMICS AND FINANCE

Dr. Alberto Dávila, *Department Chair*

Business Administration Building

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Ozuna, Jr., Teofilo, *Associate Professor, Economics*

Pagan, Jose A., *Associate Professor, Economics*

Prock, Jerry D., *Professor, Finance*

Soydemir, Gokce, *Assistant Professor, Finance,
International Economics*

► 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.

► General Degree Requirements

The following are required for the Bachelor of Business Administration (BBA) degrees in Economics and Finance:

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown below.

Section A. Science and Mathematics

Group 2. Mathematics

Students must select MATH 1321.

Section B. Computer Literacy

CIS 1201

May take CIS 1301 to satisfy core and business foundation.

Section C. Social Sciences

Group 3. Other Social Sciences

Students must select ECON 2301.

Business Foundation **20 hours**

ACC 2421 Introduction to Financial Accounting

ACC 2329 Fundamentals of Managerial
Accounting

ECON 2302 Principles of Economics I

MANA 1331 Introduction to Business

MATH 1322 Business Calculus

CIS 1101 Introduction to Office Software

COMM 1303 Presentational Speaking

Business Core **33 hours**

BLAW 3337 Business Law I

CIS 3390 Management Information Systems

FINA 3383 Managerial Finance

INTB 3330 International Business

MANA 3335 Organizational Communication

MANA 3361 Principles of Management and
Organizational Behavior

MANA 4363 Production Management

MANA 4369 Strategic Management

MARK 3371 Principles of Marketing

QUMT 2341 Elementary Business and
Economic Statistics

QUMT 3342 Intermediate Business and
Economic Statistics

■ ECONOMICS

► Programs in Economics

◆ Major in Economics - BBA

General Education, Business Foundation and Business Core Requirements **101 hours**

Economics Specialization Courses **6 hours**

ECON 3351 Macroeconomic Theory

ECON 3352 Microeconomic Theory

Economics Electives (Upper Division) **12 hours**

Economics Support Field **6 hours**

(1) ECON 3341 Econometrics

(2) Choose 3 hours from the following:

ECON 3342 Forecasting

MATH 1401 Calculus I

Math elective

Upper-level accounting course

TOTAL **125 hours**

◆ Economics Major - BA (Minor Required)

General Education and Economics BA Foundation **62 hours**

The General Education and Economics BA Foundation includes all requirements listed for the General Education and Business Foundation requirements above except MANA 1331 and ACC 2329, which are not required.

Designated Elective **3 hours**

QUMT 2341 Elementary Business and Economic Statistics

Economics Specialization Courses **9 hours**

ECON 3341 Econometrics

ECON 3351 Macroeconomic Theory

ECON 3352 Microeconomic Theory

ECON 4359 History of Economic Thought

Economics Electives (Upper Division) **18 hours**

Electives (including minor hours and must include at least 24 upper-level hours) **33 hours**

TOTAL **125 hours**

◆ Minor in Economics

A minor in economics is available to students from all areas within the University and requires 18 hours of economics that include 6 hours of economics electives.

Required Courses **12 hours**

ECON 2301 Principles of Economics I

ECON 2302 Principles of Economics II

ECON 3351 Macroeconomic Theory

ECON 3352 Microeconomic Theory

Economics Electives **6 hours**

Total minor requirements **18 hours**

■ FINANCE

► Programs in Finance

◆ Major in Finance — BBA

General Education, Business Foundation and Business Core Requirements **101 hours**

Finance Specialization Courses **9 hours**

FINA 3381 Money and Banking

FINA 3382 Investment Principles

FINA 4383 Advanced Managerial Finance

Finance electives* **9 hours**

Any 3 upper-level finance courses

Support field **6 hours**

ACC 3320 Cost Accounting

ACC 3321 Intermediate Accounting

ACC 3322 Intermediate Accounting II

ACC 3326 Acct Information Systems

ECON 3341 Econometrics

ECON 3342 Forecasting

TOTAL **125 hours**

* MANA 4399 may be substituted for a finance elective with consent of the advisor.

◆ Course Descriptions

A listing of courses offered by the Department of Economics and Finance can be found on page 272 (ECON) and 287 (FINA).

Management, Marketing & International Business

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De los Santos, Gilberto, *Professor, Marketing*

Greene, Walter E., *Professor, Management*

Hausman, Angela, *Assistant Professor, Marketing*

Kaynak, Hale, *Assistant Professor, Management*

LeMaster, Jane, *Associate Professor, Management*

Matthews, Linda, *Assistant Professor, Management*

Minor, Michael, *Professor, Marketing*

Nasif, Ercan, *Associate Professor, Management*

Sargent, John, *Assistant Professor, Management*

Sturges, David L., *Associate Professor, Management*

Thompson, William W., *Professor, Marketing*

Vasquez-Parraga, Arturo, *Associate Professor,
Marketing*

► General Overview

The Department of Management, Marketing and International Business offers the Bachelor of Business Administration (BBA) in three areas: Management, Marketing and International Business.

◆ Curriculum in Management, Marketing and International Business

The coursework leading to the BBA degree is classified as follows:

| | |
|-----------------------------------|----------|
| A. General Education Requirements | 48 hours |
| B. Business Foundation Courses | 20 hours |
| C. Business Core Courses | 33 hours |
| D. Specialization (Major) Courses | 24 hours |

Total **125 hours**

The following are required for the BBA degrees in Management, Marketing and International Business:

General Education Requirements 48 hours

Complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, that must be satisfied only as shown below.

Students must select the remaining course from only Areas 1 and 3.

Section A. Science and Mathematics

Group 2. Mathematics

Students must select MATH 1321.

Section B. Computer Literacy

CIS 1201

Section C. Social Sciences

Group 3. Other Social Sciences

Students must select Area 2. Economics ECON 2301 only.

Business Foundation 20 hours

| | |
|-----------|--------------------------------------------------|
| ACC 2421 | Introduction to Financial Accounting |
| ACC 2329 | Fundamentals of Managerial Accounting |
| CIS 1101 | Introduction to Office Software |
| ECON 2302 | Principles of Economics II |
| MANA 1331 | Introduction to Business |
| MATH 1322 | Business Calculus or |
| QUMT 2340 | Introduction to Quantitative Methods in Business |

Business Core 33 hours

| | |
|-----------|------------------------------------------------------|
| BLAW 3337 | Business Law I |
| CIS 3390 | Management Information Systems |
| FINA 3383 | Managerial Finance |
| INTB 3330 | International Business |
| MANA 3335 | Organizational Communication |
| MANA 3361 | Principles of Management and Organizational Behavior |
| MANA 4363 | Production Management |
| MANA 4369 | Strategic Management |
| MARK 3371 | Principles of Marketing |
| QUMT 2341 | Elementary Business and Economic Statistics |
| QUMT 3342 | Intermediate Business and Economic Statistics |

Specialization (Major) Courses

In addition to the University General Education requirements, the business foundation courses and the business core courses, majors in the Department of Management, Marketing and International Business must comply with the following requirements:

◆ Major in Management

General Education, Business Foundation and Business Core Requirements* **101 hours**

Management Specialization 12 hours

MANA 4361 Organizational Behavior
 MANA 3362 Human Resource Management
 MANA 4364 Societal Problems in Business
 CIS Elective above CIS 1301 and other than CIS 3390

Management Electives 12 hours

Select 12 hours from:

MANA 3300 Internship in Management
 MANA 3364 Organizational Theory
 MANA 3365 Compensation
 MANA 3366 Recruitment & Selection
 MANA 3367 Org. Training & Development
 MANA 4300 Topics in Management
 MANA 4362 Small Business Venture
 MANA 4366 Small Business Management
 MANA 4367 Purchasing & Supply Management
 MANA 4368 Industrial Relations
 MANA 4399 Business Consulting
 ECON 3351 Macroeconomic Theory

TOTAL 125 hours

* See detailed requirements above.

◆ Major in Marketing

General Education, Business Foundation and Business Core Requirements* **101 hours**

Marketing Specialization 9 hours

MARK 3372 Consumer Behavior
 MARK 4377 Marketing Management
 MARK 4378 Marketing Research

Advanced Professional Electives 6 hours

Select 6 hours from 3000- and 4000-level courses taught in the College of Business Administration upon approval of advisor.

• Option Sales

MARK 3376 Prof. Salesmanship
 MARK 4373 Sales Management
 MARK 4372 Promotion Mgmt.
 MARK 3373 Industrial Mark.
 MARK 4330 International Mark.

• Option Retail Management

MARK 3375 Retailing Mgmt.
 MANA 4576 Purchasing and Supply Mgmt.
 MARK4372 Promotion Mgmt.
 MARK 3376 Prof. Salesmanship
 MARK 4330 International Mark.

• Option Promotion Management

COMM 3304 Advertising
 MARK 3376 Prof. Salesmanship
 MARK 4372 Promotion Mgmt.
 MARK 3373 Industrial Mark.
 MARK 4330 International Mark.

TOTAL 125 hours

* See detailed requirements above.

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◆ Major in International Business

**General Education, Business Foundation
and Business Core Requirements*** **101 hours**

| | |
|---------------------------------------------------------------|----------|
| International Business Specialization | 12 hours |
| INTB 3310 Entering International Trade | |
| INTB 3340 Legal Considerations of International Business | |
| INTB 4364 Management Environment in International Business | |
| MARK 4330 International Marketing | |

Select one option from below: **12 hours**

• Management Option:

INTB 4365 (International Competitiveness) *plus*
9 MANA elective hours

• Marketing Option:

FINA 4381 (International Finance) *plus*
9 MARK elective hours

• ECO/FINA Option:

ECO 3353 (Int'l Trade) *plus* FINA 4381 (Int'l
Finance) *and* 6 hours of ECO *or*
FINA elective.

TOTAL **125 hours**

* See detailed requirements above.

◆ Course Descriptions

A listing of courses offered by the Department of Management, Marketing and International Business can be found on page 299 (MANA), 303 (MARK) and 296 (INTB).

College of Education

► General Overview

The College of Education includes the Department of Curriculum and Instruction, the Department of Educational Psychology, the Department of Health and Kinesiology and the Department of Educational Leadership.

► Academic Programs

At the undergraduate level, the College offers a Bachelor of Science degree with majors in Kinesiology and Health, a Bachelor of Arts degree in Dance and Bachelor of Interdisciplinary Studies with undergraduate certification in Elementary, Secondary and all-level Art, Music and Kinesiology education with options for specialized endorsements and endorsements in areas such as Bilingual Education, Special Education, Early Childhood, Dance and Reading. Students are encouraged to check with the departments early in their program for specific degree requirements and development of degree plans.

At the graduate level, the College of Education also offers a Master of Education degree with specializations in Elementary Education, Secondary Education, Special Education, Early Childhood Education, Reading, Educational Diagnostician, Bilingual Education, Counseling and Guidance, Educational Administration, Gifted Education, and Supervision. The College of Education offers a Master of Arts degree in School Psychology and a Master of Science degree in Kinesiology.

Although the graduate programs in education are intended primarily for personnel in public/private schools, the knowledge and skills taught are applicable to other agencies. A student may complete some M.Ed. programs at The University of Texas-Pan American without meeting all the teacher certification requirements. Please consult with the director of each program for more specific guidelines and information.

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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).

Dr. Hilda Medrano, Dean

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

► **MISSION STATEMENT**

The mission of the College of Education at The University of Texas-Pan American is to continuously improve the educational process as it is implemented in the College and the community through teaching, research and service. The College values the rich cultural and linguistic history of the international border area and directs its programs and course offerings toward the preparation of professionals for an increasingly diverse population of learners.

► **General Information**

◆ **Certificate Requirements for Teachers**

Teachers in 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.

Prospective teacher education students should consult with the undergraduate advisor and the appropriate department in the College of Education. Individuals seeking an emergency teaching credential should consult the credentialing officer in the Certification Office of the College of Education.

◆ **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.

An individual must:

- A. be a citizen of the United States or indicate intent to become a naturalized citizen as evidenced by filing a Statement of Intention to become a United States Citizen (TCER-023) with the Division of Teacher Certification;
- B. be at least 18 years of age;
- C. be of good moral character as evidenced by statement of three individuals or be recommended by a Texas senior college, and be clear of a felony or misdemeanor conviction for a crime that directly relates to the duties and responsibilities of the teaching profession;
- D. be willing to support and defend the constitutions of the United States and Texas;
- E. have college credit or examination credit on knowledge of the Texas and U.S. constitutions and U.S. history; and,

F. be able to speak and understand the English language sufficiently to use it easily and readily in conversation and teaching.

◆ **Texas Testing Requirements for Certification**

To be approved for a Standard Texas Teacher's Certificate, persons, including those holding a valid out-of-state certificate, shall be required to achieve a satisfactory level of performance on an examination prescribed by the State Board for Educator Certification.

The test is called ExCET - Examination for the Certification of Educators in Texas. The ExCET must be taken and passed for the appropriate level, specialization, certificate and endorsement in order to be recommended for certification.

Students who enroll only in a certification program are expected to meet or exceed the admission requirements of students in the regular program that corresponds to that certificate.

◆ **Criminal Records**

In accordance with Article 6252-13c, Texas Civil Statutes, the Texas Commissioner of Education may suspend or revoke a teaching certificate, or refuse to issue a teaching certificate, for 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. All potential certificate applicants with felony or misdemeanor criminal convictions should contact the Certification Officer immediately to seek clarification of their certification status.

◆ **Admission to the College of Education Teacher Education & Internship II**

• **Admission to the College of Education**

The College of Education is a professional college whose students must work closely with school-age individuals in the public schools. Consequently, admission to the college and continued enrollment in its programs is subject not only to meeting the formal requirements listed above but also to obtaining the endorsement of the undergraduate advisor or the credentialing officer, as appropriate, and meeting the faculty's expectations for effective and professional behavior. Students who enroll in any 3000- or 4000-level education courses with the following prefixes: ED, EDCl, EDBE, EDEC, EDUK, SPED, READ or KIN without being formally admitted to the College of Education will be dropped from these courses; in the event these

courses have been completed, no course credit toward the teaching credential will be awarded.

A student must apply for admission to the College of Education during the semester in which the student will have earned 63 hours for elementary certification or 78 hours for secondary or all-level certification. A formal application for admission must be filed with the Office for Educator Certification, Room 139, in the College of Education. Students must meet the following requirements prior to admission to the College of Education:

1. Pass all three subtest areas of the Texas Academic Skills Program (TASP) test with the following minimum scores in each area:

- | | |
|---------------------------------------------|-----|
| a. Reading | 230 |
| (260 if first time test taken after 1/1/01) | |
| b. Mathematics | 230 |
| c. Writing | 220 |

or meet the TASP Exception standard "B or better" Rule.

NOTE: A student who fails any section of the TASP must visit with the TASP coordinator at the Admissions and Records Office.

2. Successfully complete a minimum of 63 hours for elementary certification, or 78 hours for secondary or all-level certification, which must include the following:

- ENG 1301, with a "C" or better
ENG 1302, with a "C" or better
- MATH 1340 or higher, with a "C" or better
- MATH 2306 and 2307 (elementary only)
- 3 hours of a foreign language
- 8 hours of a laboratory science

3. For elementary certification, achieve a 2.50 cumulative grade point average (GPA) on the degree plan in general education and, for secondary or all-level certification, achieve a cumulative 2.5 GPA for all hours earned.

4. Unless prior approval is received from the student's department chair, no course may be substituted for another unless a grade of "C" or better has been earned in that course, and does not result in the GPA falling below 2.25.

5. File an official degree plan if seeking elementary or secondary certification.

NOTE: Transfer students must delay application until successful completion of the above all-level requirements.

Beginning spring 2001, cumulative GPA must be

2.5 on the elementary or secondary degree plans; TASP reading, 250, and "B" rule does not apply. This requirement applies to all students irrespective of their admission date to the University.

• Admission to Internship II: Regular Undergraduates

Students in the undergraduate teacher education program must make a separate application to be admitted to Internship II as they near the completion of their professional coursework. Applicants must have achieved a grade point average of 2.5 overall and 2.5 in their interdisciplinary area (major) and academic specialization. This requirement applies to all students irrespective of their admission date to the University. For more information on Internship II, see page 150.

NOTE: The University of Texas-Pan American's College of Education will not recommend persons on deficiency plans for certification without completing the courses outlined in their plans, passing the ExCET tests and submitting a signed and certified statement from a designated school district official (personnel director or building principal) that attests to their success in working with students in a setting that corresponds to the area of certification sought.

◆ Degreed Students Seeking Certification (Non-traditional)

• Alternative Certification Program (ACP)

The Alternative Certification Program (ACP) is designed for prospective public school teachers with degrees in disciplines other than education. The program offers a fast, efficient path to the classroom as the teacher of record.

Certification is offered in seven tracks: elementary, elementary/bilingual, elementary/ESL, secondary (all specializations), secondary/ESL and special education. Pre-assignment courses provide the academic foundation to enter the classroom in a specific track. The assignment (internship) phase consists of two 6-hour courses (one fall, one spring). Internship and employment is at the discretion of the employing school district. Internship courses require a special fee. A criminal records check will be conducted by employing districts; a felony conviction may be disqualifying.

Program prerequisites include: admission to ACP, a baccalaureate degree from an accredited institution, overall GPA of 2.5, passing score on TASP or PPST and credit for college algebra (or higher) with a "C" or better.

• Deficiency Plan/Emergency Permit

In order to meet school district staffing needs, school districts may elect to hire degreed personnel who are deficient in education coursework, ExCETs, etc.

The following criteria must be met in order for the Office of Admission and Certification to process a deficiency plan for an Emergency Permit:

- ▶ Submit an official request for a plan by the school district offering employment to the COE Office of Admission and Certification *OR*
- ▶ Submit a Student Educational Plan Request (obtain form at Certification Office).
- ▶ 2.50 cumulative GPA on transcript with a minimum of 2.25 in the area to be certified.
- ▶ Passing scores on all sections of TASP or meet UTPA Certification TASP Exemption Standards.
- ▶ Have minimum of 9 hours of specified COE Professional Education coursework (EDCI 4301, EDCI 4302, READ 4351); 9 hours waived if permit being requested is in major or minor area.
- ▶ Degreed students from other institutions may be required to obtain additional coursework for certification in the content area, which targets ExCET competencies.

If a permit is issued (for non-degreed or degreed), the field experience for Internship II (formerly Student Teaching) must be replaced by two years as a teacher of record (full-time teacher in the area and at the level in which certification is being sought) plus an additional 6 hours of approved upper-division education coursework must be taken in lieu of Internship II coursework to fulfill degree requirements. These 6 hours will be assigned when the deficiency plan is processed.

◆ Policy and Advisory Groups

• The University Teacher Education Committee

All departments that offer certification programs at The University of Texas-Pan American maintain membership on the University Teacher Education Committee. The basic functions of the committee are to:

1. approve any teacher education program changes originating in the College of Education or in departments offering certification programs.
2. approve any changes in courses that are part of any university certification program.
3. approve candidates for elementary, secondary and all-level Internship II.
4. approve appeals made by prospective student teachers who had previously been denied or dropped or

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who failed Internship II.

It shall be understood that approval of an application does not constitute subsequent recommendation on the part of the University for a certificate to teach. Such recommendation is contingent upon continued demonstration of promise as a prospective teacher and completion of the certification requirements both in professional education and in the major or minor teaching fields.

• The South Texas Center for Professional Development of Teachers (STCPDT)

The South Texas CPDT is a collaborative composed of University faculty, administrators from the University, public school districts and Region One Education Service Center, public school teachers, and teacher education students. Its purpose is to collaboratively design, implement and assess the field-based teacher preparation program offered in the College of Education at UT Pan American. The South Texas CPDT Governance Board advises on and/or approves changes regarding admission and certification requirements, course offerings, program changes, field experiences and the Internship II semester.

CURRICULUM & INSTRUCTION

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Freeman, Yvonne, *Professor*
Gómez, Leo, *Associate Professor and COE Assistant Dean*
Lopez, Patricia, *Lecturer*
McBride, John, *Professor and Chair*
McWright, Buford, *Assistant Professor*
Medrano, Hilda, *Professor and COE Dean*
Meehan, Jan, *Assistant Professor*
Morse, Kevin, *Professor*
Perez, Alma, *Assistant Professor*
Perez, Ricardo, *Professor*
Reeve, Robert, *Professor*
Ruiz-Escalante, Jose, *Professor*
Salinas, Analida, *Lecturer and Co-Director, Reading Recovery Program, Coordinator, Alternative Certification Program*
Solis, Dalinda, *Associate Professor*
Sutti, Gloria Domenica, *Lecturer*
Tevis, Martha, *Professor*
Williams, Irma, *Lecturer and Co-Director, Reading Recovery Program*
Yanes, Jeanne, *Assistant Professor*

► Degree Programs

◆ For Elementary Teachers

A Bachelor of Interdisciplinary Studies was implemented in fall 1997 and revised spring 2002 for students seeking state certification in elementary education. In compliance with the Texas Education Code and the new "CPDT Rule" on teacher education, the following academic specializations are offered leading to early Childhood-fourth grade certification:

• Specializations and Delivery Systems

Bilingual Education
Early Childhood Education
Generic Special Education

◆ For Secondary Teachers

Standard teacher certification at the secondary level is offered in the following teaching fields:

Art
Biology
Chemistry
Computer Information Systems
Dance
Earth Science
English
French
Generic Special Education
Government
Health
History
Journalism (Print)
Kinesiology
Mathematics
Music
Physical Science
Physics
Psychology
Social Studies
Sociology
Spanish
Speech Communication
Theatre Arts

Specific requirements for all certification programs at the secondary level may be located within program descriptions under individual departments throughout this catalog.

◆ For All-Level Teachers

All-level standard teacher certificates are offered in Art, Music and Kinesiology. Specific requirements for certification programs may be located within each department.

◆ Teacher Certification Programs

General Education 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 the elementary level are required to satisfy the University's General Education requirements as specified by the State Board of Education, the State Board for Educator Certification and the Texas Higher Education Coordinating Board. Students must complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown below.

Section A. Humanities

Group 1. Freshman English **6 hours**

A grade of "C" or better must be obtained in both courses.

Group 2. English Literature **3 hours**

Group 3. Language Other than English **3 hours**
Spanish is required for the Bilingual and Early Childhood Specializations

Group 4. Other Humanities **6 hours**

Area 1. The Arts

Sub-area 1. ART 1301 or ART 3381

NOTE: Students must complete a course from the arts sub-area not selected as an additional degree requirement.

Area 2. Philosophy and Modern or Classical Language

Section B. Science and Mathematics

Group 1. Natural Science (must be in the same discipline)

Physical Science must be selected for Elementary (EC-4 Certification). Anatomy and Physiology for Special Ed and Kinesiology

Group 2. Mathematics

MATH 1340 must be completed with a "C" or better for certification.

Section C. Computer Literacy

CSCI 1201 or CIS 1201 must be selected.

◆ Standard Elementary Certification within the Baccalaureate Interdisciplinary Degree

In addition to completing the General Education requirements noted above, students must complete the following:

Minimum Academic Specialization **18 hours**
(including 9 advanced)

Interdisciplinary Area **43-49 hours**
(Combination of Subjects)

Professional Development Sequence **21 hours**

◆ Academic Specializations for Elementary Certification

• Elementary (Grades EC-4) Certification

The following specializations are available; they require a minimum of 18 hours.

Bilingual Education
Early Childhood Education
Generic Special Education

◆ Requirements for Academic Specializations in Bilingual, Early Childhood and Special Education

The requirements for the specializations for elementary certification that are offered through the College of Education are shown below.

• Specialization: Bilingual Education

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

ENG 3320 Advanced Topics in English (Literacy Development)

• Specialization: Generic Special Education

SPED 1305 Introduction to the Exceptionalities

SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities

SPED 3301 Inclusion of the Exceptionalities

SPED 3302 Theories of Learning Disabilities

- SPED 4300 Testing and Assessment of Exceptional Individuals
 SPED 4303 Theories of Social Competence and Behavioral Interventions
 SPED 4309 Program Planning for Secondary Special Education

• **Specialization: Early Childhood**

- EDEC 4314 Research in Early Childhood
 EDEC 4391 Foundations of Early Childhood
 EDEC 4392 Acquisition and Conceptualization Processes in Early Childhood
 EDEC 4394 Cognitive and Psychomotor Development in Early Childhood
 EDBE 4304 Development of Bilingualism
 ENG 3320 Advanced Topics in English (Literacy Development)

• **Elementary Certification-Bilingual Education Interdisciplinary Area** **49 hours**

Language Arts:

- READ 3323 Reading Acquisition
 READ 3325 Cognitive Development and Reading Comprehension
 ENG 4321 Fundamentals of Language Development
 ENG 4325 Composition Techniques
 ENG 4326 Language Acquisition *or*
 READ 3329 Language Arts Curriculum
 SPAN 2307 Intermediate Spanish for Native Speakers
 SPAN 2308 Intermediate Spanish for Native Speakers
 SPAN 1302
or 1304 Beginning Spanish

Math/Science:

- EMAT2306 Foundations of Mathematics I
 EMAT2307 Foundations of Mathematics II
 BIOL 1402 General Biology II
 BIOL 2305 Environmental Biology

Social Studies/Other Humanities:

- HIST 3373 Mexican-American Heritage *or*
 HIST 3330 A General Survey of the History of Texas
 ANTH 3333 United States and Other World Cultures
 MUS 3311 Essential Elements of Music
 HLTH 2352 Personal Health and Wellness

• **Elementary Certification-Special Education Interdisciplinary Area** **34 hours**

Reading:

- READ 3323 Reading Acquisition
 READ 3325 Cognitive Development and Reading Comprehension

Language Arts/Communications:

- ENG 4321 Fundamentals of Language Learning
 ENG 4326 Language Acquisition *or*
 ENG 4328 Introduction to English as a Second Language *or*
 ENG 3321 Language and Culture
 COMD1310 Beginning Sign Language
 COMD1320 Intermediate Sign Language

Mathematics:

- EMAT2306 Foundations of Mathematics I
 EMAT2307 Foundations of Mathematics II

Science:

- PSCI 1421 Physical Science I *or*
 PSCI 1422 Physical Science II *or*
 PSCI 2408 Survey of Physical Science

Kinesiology:

- KIN 4351 Adapted Kinesiology (requires admission to College of Education)

Other Humanities:

Select 3 hours from the following:

- MUS 1307 Music Appreciation *or*
 MUS 1308 Mexican Folk Music *or*
 MUS 3311 Essential Elements of Music *or*
 HONR 2387 *or* 2388

• **Elementary Certification-Early Childhood Interdisciplinary Area** **43 hours**

Reading:

- READ 3323 Reading Acquisition
 READ 3325 Cognitive Development and Reading Comprehension

Language Arts:

- ENG 4321 Fundamentals of Language Learning
 ENG 4325 Composition Techniques *or*
 READ 3329 Language Arts Curriculum
 ENG 4326 Language Acquisition
 COMM 1313
or 1387 Fundamentals of Speech

Math/Science:

EMAT2306 Foundations of Mathematics I
 EMAT2307 Foundations of Mathematics II
 BIOL 1402 General Biology II
 BIOL 2305 Environmental Biology

Social Studies/Other Humanities:

ANTH3333 U.S. and Other World Cultures
 HIST 3330 A General Survey of the
 History of Texas *or*
 HIST 3373 Mexican-American Heritage
 HLTH2352 Personal Health and
 MUS 3311 Essential Elements of Music

• **Professional Education
 (Certification Coursework) Elementary**

Bilingual Education: 21 hours

EDEC 4390, SPED 3301, EDCI 3305, EDCI 4305,
 EDCI 4306, EDCI 4311 and EDCI 4312

Special Education: 21 hours

EDCI 3305, EDCI 4302, EDCI 4305, EDBE 3322, EDCI
 4306, EDCI 4311 and ED 4313

Early Childhood: 21 Hours

EDEC 4390, SPED 3301, EDCI 3305, EDCI 4305,
 EDCI 4306, EDCI 4311 and EDEC 4312

• **Endorsement Requirements**

Endorsements consisting of 9-12 additional hours may be added to Texas teacher certificates in Bilingual Education, English as a Second Language, Early Childhood (see below) and Information Technology. A certification of 24 hours in Generic Special Education may be added.

Endorsement: Bilingual Education

The Bilingual Education endorsement may be added to valid provisional teacher certificates and provisional special education certificates. The professional development sequence for the endorsement consists of:

1. Oral and written proficiency in the language of the target population as measured by examinations approved by the State Education Agency.

A. Oral proficiency shall be determined by the Texas Oral Proficiency Test (TOPT) with a passing score of level 3.

B. Written proficiency shall be determined by

the College Level Examination Program (CLEP) with a passing score of 50.

2. 12 hours at the graduate or undergraduate level earned after the bachelor's degree as follows:

EDBE 3315 *or* ED 6335

EDBE 3316 *or* ED 6350

EDBE 3322 *or* ED 6322

EDBE 4304 *or* ED 6351

3. One year of successful teaching experience in a state-approved bilingual classroom.

4. Successful completion on ExCET/Bilingual.

Endorsement: Early Childhood

The early childhood endorsement may be added to valid Standard teacher certificates with elementary or all-level options and Standard special education certificates. The professional developmental sequence for the early childhood endorsement consists of:

1. 12 hours: EDEC 4390, EDEC 4391, EDEC 4392, EDEC 4393. In addition, EDEC 4394 is strongly recommended.

2. 3 hours of early childhood student teaching (EDCI 4312 Student Teaching in Early Childhood); or one year of successful early childhood teaching experience on a permit in an accredited school and 3 additional hours (EDEC 4314 Survey of Research in Early Childhood) of early childhood education. Teaching or student teaching in a multi-age class that includes kindergarten shall be acceptable as appropriate experience.

Endorsement: English as a Second Language (ESL)

The English as a Second Language (ESL) endorsement may be added to valid Standard teacher certificates (elementary or secondary) and Standard special education certificates. The professional development sequence for the ESL endorsement consists of 12 hours (2.25 GPA):

ENG 3319 Introduction to Descriptive Linguistics

ENG 3321 Language and Culture

ENG 4328 Introduction to English as a
 Second Language

EDBE3324 English as a Second Language

Students who are completing this endorsement as part of their initial teacher certificate should partially fulfill their student teaching requirements with the following course:

EDCI 4310 Directed Teaching-ESL

Endorsement: Information Technology

This endorsement may be added to valid teaching certificates, special education certificates or vocational education certificates that require a college degree. The Level I endorsement shall consist of the following 9 hours:

CSCI 1380 Computer Science I
 CSCI 3321 Survey of Computer Concepts
 ED 3350 Information Technology

◆ Certification Requirements for Secondary

For the prospective secondary teacher, The University of Texas-Pan American offers bachelor's degrees (BA, BS, BFA or BBA) in various academic disciplines with secondary certification through the College of Education. The General Education and major requirements for the various academic disciplines are specified by the departments in this catalog.

In addition to the General Education requirements and the major requirements, the following requirements apply for students seeking Standard Teacher Certificates at the secondary level:

Professional Development Sequence 21 hours

18 hours upper division, including EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, READ 4351 and EDCI 4641 (and/or appropriate student teaching course number for Generic Special Education). For all-level certificates, see "Requirements for All-Level Certificates."

Electives 12 hours

Students must complete one course from two of the following areas:

Area 1.

ART 1301 Art Appreciation

Area 2.

COMM 1303 Presentational Speaking

Area 3.

PHIL 1320 Introduction to Logic
 PHIL 2330 Ethics

Students must complete one course from two of the following areas:

Area 1.

ANTH 1323 Introduction to Cultural Anthropology
 ANTH 1353 Introduction to Folklore
 ANTH 2323 Mexican-American Culture

Area 2.

ECO 1301 Introduction to Economics
 ECO 2353 Principles of Economics I

Area 3.

PSY 1310 Introduction to Psychology

Area 4.

SOC 1313 Principles of Sociology
 SOC 1323 Current Social Issues
 SOC 2333 Marriage and the Family

• Secondary Teacher Certifications

The College of Education offers Provisional Secondary Teacher Certifications in the teaching fields and delivery systems shown below.

• Secondary (Grades 7-12) Option I:

An Option I certificate requires one 36-hour (minimum) teaching field, including 21 upper-division hours. They are available in the following fields:

Biology
 Chemistry
 Computer Information Systems
 Dance
 Earth Science
 English
 French
 Political Science
 History
 Mathematics
 Spanish
 Speech Communication
 Theatre Arts

• Secondary (Grades 7-12) Option II:

An Option II certificate requires two 24-hour (minimum) teaching fields/delivery systems, including 12 upper-division hours. They are available in the following fields:

Art
 Biology
 Chemistry
 Computer Information Systems
 Dance
 Earth Science
 English
 Generic Special Education
 Health

History
 Journalism
 Kinesiology
 Mathematics
 Physical Science
 Physics
 Political Science
 Psychology
 Sociology
 Spanish
 Speech Communication

• Secondary (Grades 7-12) Option III:

An Option III certificate requires one 48-semester hour (minimum) broad teaching field, including 24 upper-division hours. They are available in the following fields:

Art
 Music

• Secondary (Grades 7-12) Option IV:

An Option IV certificate requires one 48-semester hour (minimum) composite teaching field, including 24 hours in one area, of which 12 hours must be upper division. It is available in the following field:

Social Studies

◆ Requirements for Teaching Fields Offered in the College of Education

The requirements for the teaching fields offered in the College of Education for those seeking a Standard secondary teacher certificate are shown below.

• Secondary Option II (minor or second teaching field) in Generic Special Education

| Required Courses | 24 hours |
|---------------------------------------------------------------------------------------------------------|----------|
| SPED 1305 Introduction to the Exceptionalities | |
| SPED 2304 Computer Applications and Adaptations for Individuals with Disabilities | |
| SPED 3302 Theories of Learning Disabilities | |
| SPED 4300 Testing and Assessment of Exceptional Individuals | |
| SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities | |
| SPED 4303 Theories of Social Competence and Behavioral Interventions | |
| SPED 4309 Program Planning for Secondary Special Education | |

KIN 4351* Adaptive Kinesiology or
 SPED 4372 Individual Differences or
 READ 3327 Assessment/Diagnosis of Special Needs Students

*Students majoring in Kinesiology are required to take:
 SPED 4372 Individual Differences.

• Requirements for All-Level Certificates

Standard Teacher Certificates, all-level, are offered in Art, Kinesiology and Music. A kinesiology all-level major requires a second teaching field of 24 hours; second teaching fields are not required for art and music all-level majors. Specific requirements for each are located in the appropriate departments elsewhere in this catalog; however, the professional development (21 upper-division hours) sequence for Standard teacher certificate all-level, offered through the College of Education for art and music, is as follows: EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, READ 4351, EDCI 4398 and EDCI 4311. All-level for Kinesiology is as follows: EDCI 4301, EDCI 4302, EDCI 4307, READ 4351, EDUK 4354, and EDCI 4699.

• Internship II

The College of Education offers the Internship II experience as an important component in the preparation of competent teachers. Prospective teacher preparation students should consult with their program advisors and apply at the College of Education Office of Field Experiences. The Internship II admission requirements below are subject to change due to new state agency regulations or College of Education/ University-approved policy.

• Requirements for Admission to Internship II Semester Elementary Education

1. Minimum overall grade point average (GPA) on degree plan of 2.5.
2. All General Education courses completed with a minimum GPA of 2.25.
3. All professional education courses completed with a GPA of 2.5.
4. ENG 1301 and ENG 1302 completed with a minimum grade of "C" in each.
5. Successful completion of MATH 1340, MATH 2306 and MATH 2307 with a grade of "C" or better in each.

6. Completed minimum of 3/4 of total hours required in the interdisciplinary area with a minimum 2.5 GPA.

7. Satisfactory completion of the following courses in Elementary Education: ED BE 3322, SPED 3301, EDEC 4390, EDCI 4305, EDCI 3305, EDCI 4306, READ 3323 and READ 3325 with a minimum GPA of 2.5.

8. Completed minimum of 3/4 of total hours required in academic specialization or delivery system with a minimum GPA of 2.5 in each.

All requirements for Internship II, including successful completion of Internship I, must be met before a student is given a clear admission status. All students are required to successfully complete the program and developmental benchmarks. See College of Education program advisors for specific information.

Secondary Education

1. Minimum overall grade point average (GPA) of 2.5.

2. General Education required courses completed with a minimum GPA of 2.25.

3. ENG 1301 and ENG 1302 completed with a minimum grade of "C" in each.

4. Successful completion of MATH 1340 with a grade of "C" or better.

5. Completed minimum of 3/4 of total hours required in major teaching field.

6. Minimum of 2.5 grade point average (GPA) in major.

7. Additional requirements as specified by major department.

8. Completed minimum of 3/4 of total hours required in the minor or second teaching field.

9. Minimum of 2.5 grade point average (GPA) in minor.

10. Additional requirements as specified by minor department.

11. 15 hours in Secondary Education: EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308 and READ 4351.

12. Minimum of 2.5 grade point average (GPA) in professional education.

All-Level and Secondary Kinesiology

1. Minimum overall grade point average (GPA) of 2.5.

2. General Education required courses completed with a minimum GPA of 2.5.

3. ENG 1301 and ENG 1302 completed with a minimum grade of "C" in each.

4. Successful completion of MATH 1340 with a grade of "C" or better.

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5. Minimum of 2.5 grade point average in major.
6. Additional requirements as specified by major department.

7. Minimum of 2.5 grade point average in minor.
8. Additional requirements as specified by minor department.

9. 15 hours in Secondary Education: EDCI 4301, EDCI 4302, EDCI 4307, READ 4351 and EDUK 4354.

10. Minimum of 2.5 grade point average in professional education courses.

◆ Course Descriptions

A listing of courses offered by the College of Education can be found in the Course Descriptions section beginning on page 274.

EDUCATIONAL PSYCHOLOGY

Dr. Jo Ann Mitchell, *Department Chair*

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Full-time Faculty

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Carlson, Ralph, *Professor*
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Pecina, Julia, *Lecturer*
Poelzer, Harold, *Associate Professor*
Saenz, Laura, *Lecturer*
Simonsson, Marie, *Assistant Professor*
Zeng, Liang, *Assistant Professor*

► General Overview

The Department of Educational Psychology offers an undergraduate area of specialization (minor) in Generic Special Education. The department also offers the Master of Education degree (M.Ed.) in Gifted Education, Educational Diagnostician, Special Education and Guidance and Counseling, and a Master of Arts degree (MA) in School Psychology.

Certificates and/or endorsements in Generic Special Education; Gifted Education; Information Technology; Licensed Specialist in School Psychology; School Psychologist certification from the National Association for School Psychologists (NASP); and School Counselor are also offered by the department.

A second very important focus for the department is the coordination of all studies that are generic or core to all undergraduate and graduate degree programs. These include studies in Measurement, Statistics, Research, Educational Psychology, Multicultural Education, Human Growth and Development, and Educational Technology.

► Degree Requirements

Generic Special Education may be attached to a major in three different ways: Baccalaureate in Interdisciplinary Studies, Elementary Option: Certification-Generic Special Education; Teaching Certification Secondary Option II (minor or second teaching field); Minor in Generic Special Education (non-certified or institutional minor).

◆ Baccalaureate in Interdisciplinary Studies, Elementary Option III: Certification – Generic Special Education

• General Education Requirements

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown below.

Section A. Humanities

Group 4. Other Humanities

Students may select only from the following list:

Three hours from ART 1301 or ART 3381

Three hours from PHIL 1320 or PHIL 1388

Section B. Science and Mathematics

Group 1. Natural Science

BIOL 2403 and BIOL 2404

Section C. Computer Literacy

CSCI 1201 or CSCI 1301

Group 3. Other Social Sciences

Students must take Psychology 1310.

Interdisciplinary Studies Area

34 hours

READ 3323

READ 3325

ENG 4321

ENG 4326, ENG 4328, ENG 3321

COMD 1310

COMD 1320

COMM 1313 or COMM 1303

MATH 2306

MATH 2307

PSCI 1421, PSCI 1422, PSCI 2308

KIN 4351

Select 3 semester hours from the following:

MUS 1307
 MUS 1308
 MUS 3311
 PHIL 1320
 PHIL 1388 *or*
 ANTH 3333

Modern Language (Part 2 of same Modern Language selected under General Education).

Professional Education 21 hours

EDCI 3305 Foundations of Multicultural Education
 EDCI 4302 Educational Psychology
 EDCI 4305 Instructional Technology and Curriculum Development
 EDBE 3322 Foundations of Bilingual Education
 EDCI 4306 Instructional Methods and Classroom Management
 EDCI 4311 Directed Teaching-Elementary
 ED 4313 Directed Teaching-Generic Special Education

Academic Specialization:

Generic Special Education 21 hours

SPED 1305 Introduction to the Exceptionalities
 SPED 3301 Inclusion of the Exceptionalities
 SPED 3302 Theories of Learning Disabilities
 SPED 4300 Testing and Assessment of Exceptional Individuals
 SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities
 SPED 4303 Theories of Social Competence and Behavioral Interventions
 SPED 4309 Program Planning for Secondary Special Education

Teaching Certification: Secondary Option II (minor or second teaching field)

in Generic Special Education 24 hours

SPED 1305 Introduction to the Exceptionalities
 SPED 2304 Computer Applications and Adaptations for Individuals with Disabilities
 SPED 3302 Theories of Learning Disabilities
 SPED 4300 Testing and Assessment of Exceptionalities

SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities
 SPED 4303 Theories of Social Competence and Behavioral Interventions
 SPED 4309 Program Planning for Secondary Special Education
 KIN 4351* Adaptive Kinesiology *or*
 SPED 4372 Individual Differences

**Students majoring in Kinesiology are required to take:*
 SPED 4372 Individual Differences.

Certificate: Generic Special Education 21 hours

The Generic Special Education certificate may be added to valid provisional teacher certificates with elementary, secondary or all-level options certificates. The professional developmental sequence for the Generic Special Education certificate consists of 24 hours as follows:

SPED 1305 Introduction to the Exceptionalities
 SPED 2304 Computer Applications and Adaptations for Individuals with Disabilities
 SPED 3302 Theories of Learning Disabilities
 SPED 4300 Testing and Assessment of Exceptional Individuals
 SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities
 SPED 4303 Theories of Social Competence and Behavioral Interventions
 SPED 4309 Program Planning for Secondary Special Education
 KIN 4351* Adaptive Kinesiology *or*
 SPED 4372 Individual Differences

Minor in Generic Special Education (non-certified or institutional minor) 24 hours

SPED 1305 Introduction to the Exceptionalities
 SPED 2304 Computer Applications and Adaptations for Individuals with Disabilities
 SPED 3302 Theories of Learning Disabilities
 SPED 4300 Testing and Assessment of Exceptional Individuals
 SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities

- SPED 4303 Theories of Social Competence
and Behavioral Interventions
- SPED 4309 Program Planning for Secondary
Special Education
- *KIN 4351 Adaptive Kinesiology *or*
- SPED 4372 Individual Differences

**Students majoring in Kinesiology are required to take:*
SPED 4372 Individual Differences

Directed Student Teaching Requirements for Generic Special Education

A student seeking certification in elementary or secondary education and minoring in generic special education must complete one-half of his or her student teaching semester in an elementary or secondary classroom and one-half in a special education classroom. All students must enroll in ED 4313 to fulfill special education student teaching requirements. Before entering student teaching, the student must have completed all minor courses, with the exception of night block students, who may take SPED 4300 concurrently with student teaching. For additional requirements, please refer to the section on student teaching in the Department of Curriculum and Instruction.

◆ Endorsements

• Endorsement in Gifted Education

See Graduate Programs, Department of Educational Psychology.

Endorsement in Information Technology

1. Texas Teaching Certificate
2. 9 hours: ED 3350, CSCI 1380 and CSCI 3321

• Certificate and Endorsements in Special Education (graduate level)

See graduate programs, Department of Educational Psychology.

◆ Course Descriptions

A listing of Education courses can be found in the Course Description section beginning on page 274.

HEALTH & KINESIOLOGY

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- Gonzalez, Juan, *Assistant Professor, Kinesiology*
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- Jorgensen, Layne,
Professor and Graduate Coordinator, Kinesiology
- Mottinger, Sue,
Associate Professor, Kinesiology
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- Nelson, Larry, *Lecturer, Kinesiology*
- Ryman, Jeannean, *Lecturer, Kinesiology*
- Schmidt, Marcelo, *Lecturer, Kinesiology*
- Semper, Louis T., *Associate Professor and
Program Coordinator, Kinesiology*
- Villas, Paul, *Professor, Health*

► Mission Statement

The mission of the Department of Health and Kinesiology is congruous with those of The University of Texas-Pan American and the College of Education. Specifically, it is to prepare health, kinesiology, and dance students to function professionally in a changing diverse society, to fulfill the General Education requirements and to improve the quality of University life through the understanding, delivering and promotion of physical activity in the wellness program.

► General Overview

The Department of Health and Kinesiology offers a Bachelor of Science degree with majors in Health and in Kinesiology and a Bachelor of Arts in Dance degree. The department also offers minors in Health, Kinesiology, and Dance. At the graduate level, the Department of Health and Kinesiology offers a Master of Science degree with a specialization in Kinesiology. As part of The University of Texas System Consortium, an online master's degree is offered.

◆ Teacher Certification

The following plans are offered:

Health

Elementary Option I (within Interdisciplinary Elementary majors only)

Elementary Option II (within Interdisciplinary Elementary majors only)

Secondary Option II

Kinesiology

Elementary Option I (within Interdisciplinary Elementary majors only)

Elementary Option II (within Interdisciplinary Elementary majors only)

Secondary Option II

All-Level Kinesiology Option II

Dance

Secondary Option I

Secondary Option II

The General Education requirement for all students is 2 hours of credit in a kinesiology wellness activity course. This requirement is met during the freshman and/or sophomore year by taking a 2-hour wellness activity course. Students who are unable to participate in physical activity courses must obtain a waiver and are required to take KIN 2301 to satisfy the requirement. (See pages 91-93 for General Education requirements.)

◆ Degree Requirements

Special General Education Requirements for Bachelor of Science Degrees in Health and Kinesiology

Complete the requirements shown in the General Education requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups, or areas listed below, which must be satisfied only as shown below.

Section B. Science and Mathematics

Group 1. Natural Science

BIOL 2403 and BIOL 2404 required

Section D. Kinesiology

KIN 1201 (for Kinesiology majors only).

This satisfies the General Education requirements.

• Special General Education Requirements for Bachelor of Arts Degree in Dance.

Section B. Science and Mathematics

Group 1. Natural Science

BIOL 2403 required

BIOL 2404 required

• Student Teaching

Please refer to the Student Teaching section under the Department of Curriculum and Instruction. In addition, health, kinesiology and dance 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.*

• Health

Secondary Option II (Major): Must have completed HLTH 1354 and 21 additional health hours of which nine must be advanced, and have a GPA of 2.50 or better. HLTH 2352 may not be used to satisfy Option II Teacher Certification.

Secondary Option II (Minor): Must have completed HLTH 1354 and 15 additional hours of which six must be advanced, and a GPA of 2.50 or better. HLTH 2352 may not be used to satisfy Option II Teacher Certification.

• Kinesiology

Secondary Option II (Major): Must have completed KIN 1351, 1354, 3312, 3319, 3345, 3353, 3365, 4351, and 3 additional hours and have a GPA of 2.50 or better.

Secondary Option II (Minor): Must have completed KIN 1351, 1354, 3312, 3319, 3345, 3353, 3365, and 4351 and have a GPA of 2.50 or better.

All-level Option II (major): must have completed KIN 1351, 1354, 3313, 3319, 3345, 3353, 3356, 3365, and have a GPA of 2.50 or better.

- **Dance**

Secondary Option I and II (Major): Must have completed DANC 3202, 2203, 3309, 3310, 3311, 3320, 4202, 4310, 4311, 4312 and at least two 4000 level Technique dances.

- **Health Degree Requirements**

Health majors should consult with their advisor in the department.

- **Health Major (non-certified)** — requires a minor.

Required courses **33 hours**

30 total hours in health of which 15 must be advanced, including HLTH 4353
3 hours of Communication 1303 or 1313

TOTAL **33 hours**

A health major (non-certified) requires a Support Area of 12 hours from the following, with a minimum of 6 advanced: CRIJ 1301, CRIJ 3303, HRP 3310, KIN 3365, MARK 3371, PSY 1310, PSY 3324, REHS 2301, SOC 2332, SOC 3324, SOCW 2314, SOCW 3345, SOCW 4320.

TOTAL **12 hours**

- **Health Minor (non-certified)**

18 hours in health, of which 6 must be advanced

- **Teacher Certification in Health**

Health major or minor must have a GPA of 2.50 or higher.

- **Health Elementary Option I (Elementary majors only)**

Required Courses **6 hours**

HLTH 1354 Safety and First Aid
HLTH 2352 Personal Health and Wellness

6 hours from the following:

HLTH 3373 Human Sexuality
HLTH 3374 Chronic and Degenerative Disease
HLTH 3375 Consumer Health

TOTAL **12 hours**

BIOL 2403 Anatomy and Physiology — preferred
BIOL 2404 Anatomy and Physiology — preferred

- **Health Elementary Option II (Elementary majors only)**

Required Courses **9 hours**

HLTH 1352 Community and Environmental Health
HLTH 2352 Personal Health and Wellness
HLTH 2372 Nutrition and Health

6 hours from the following:

HLTH 3373 Human Sexuality
HLTH 3374 Chronic and Degenerative Disease
HLTH 3375 Consumer Health
3 advanced hours of HLTH electives

TOTAL **18 hours**

BIOL 2403 Anatomy and Physiology - preferred
BIOL 2404 Anatomy and Physiology - preferred

- **Health Secondary Option II (Health major or first teaching field) —**

Requires second teaching field

Required Courses **30 hours**

HLTH 1354 Safety and First Aid
HLTH 4350 Organization of the Health Program
12 hours from lower-division courses, excluding HLTH 2352
12 hours from upper-division courses
COMM1303 or COMM 1313

3 hours

TOTAL **33 hours**

- **Professional Education**

EDCI 4301 Foundations of Education
EDCI 4307 Secondary Curriculum: Internship I
EDCI 4308 Advanced Secondary Curriculum: Internship I
EDCI 4641 Secondary Internship II
EDHS 3305 Educational Psychology
READ 4351 Developmental Reading in Secondary Schools

Other Requirements

BIOL 2403 Anatomy and Physiology
BIOL 2404 Anatomy and Physiology

• **Health Secondary Option II
(Minor or secondary teaching field)**

Required Courses **24 hours**

HLTH 1354 Safety and First Aid
HLTH 4350 Organization of the Health Program
9 hours from lower-division courses excluding
HLTH 2352

9 hours from upper-division courses

Recommended Courses

BIOL 2403 Anatomy and Physiology
BIOL 2404 Anatomy and Physiology

• **Kinesiology Degree Requirements**

Kinesiology majors should consult with their advisor in the department.

• **Major in Kinesiology (non-certified)**

Required Courses **30 hours**

KIN 1351 Introduction to Kinesiology
KIN 1354 Safety and First Aid
KIN 3312 Dance Activities for Adolescents
KIN 3319 Tumbling and Gymnastics
KIN 3345 Biomechanics
KIN 3353 Physiology of Exercise
KIN 3365 Tests and Measurements in Kinesiology
KIN 4351 Adapted Kinesiology
KIN 4664 Kinesiology Practicum

Kinesiology Wellness Activity Courses **8 hours**

Select one course from Areas 1-4

NOTE: All departmental courses listed as either "Intermediate or II" require the satisfactory prerequisite completion of a similar content course listed as either basic, beginning or level I or must satisfactorily demonstrate requisite skill level proficiency to course instructor. Students lacking the prerequisite courses and/or skill levels who enroll in intermediate or level II courses will be dropped by the course instructor.

Area 1: Team Sports

KIN 1250 Speedball-Soccer
KIN 1255 Softball
KIN 2201 Flag Football
KIN 2202 Volleyball
KIN 2221 Basketball

Area 2: Dual Sports

KIN 2203 Badminton I
KIN 2204 Tennis I
KIN 2213 Badminton II
KIN 2241 Racquetball I
KIN 2242 Racquetball II
KIN 2256 Tennis II
KIN 2264 Fencing

Area 3: Aquatics

KIN 1200 Swimming I
KIN 2280 Lifeguard Training
KIN 2281 Water Safety Instruction
KIN 2282 Scuba Diving

Area 4: Others

Select any course from those not listed previously.
COMM 1303 or 1313 3 hours

TOTAL **41 hours**

• **Support Area**

A Kinesiology major (non-certified) requires a 24-hour support area containing:

CIS 2352
HLTH 2352
MANA 3361
MARK 3371
MARK 4372
SOC 3310
6 hours advanced elective of anything

TOTAL **24 hours**

• **Minor in Kinesiology (non-certified)**

Professional Kinesiology (Theory Courses) **18 hours**

A minimum of 6 hours advanced.

Kinesiology Wellness Activity Courses **6 hours**

Six hours activity wellness classes:
KIN 1200 (or another aquatic)
KIN1201, and 2 hours elective.

TOTAL **24 hours**

Teacher Certification in Kinesiology

Kinesiology major or minor must have a GPA of 2.50 or higher in theory classes.

• Kinesiology Elementary Option I

(Elementary majors only)

Required Courses 12 hours

- KIN 3310 Modified Team and Individual Sports
- KIN 3313 Dance for Children
- KIN 3317 Theory and Performance
of Gymnastics
- KIN 3356 Movement Exploration
Recommended Courses
- BIOL 2403 Anatomy and Physiology
- BIOL 2404 Anatomy and Physiology

• Kinesiology Elementary Option II

(Elementary majors only)

Required Courses 12 hours

- KIN 3310 Modified Team and Individual Sports
- KIN 3313 Dance for Children
- KIN 3317 Theory and Performance
of Gymnastics
- KIN 3356 Movement Exploration

Designated Electives 6 hours

Select 6 hours from the following:

- KIN 3300 Theory of Football
- KIN 3302 Teaching Individual Sports
- KIN 3303 Theory of Basketball
- KIN 3304 Theory of Baseball
- KIN 3305 Theory of Track and Field
- KIN 3320 Theory of Volleyball
- KIN 3333 Theory of Soccer
- KIN 4351 Adapted Kinesiology

TOTAL 18 hours

Recommended Courses

- BIOL 2403 Anatomy and Physiology
- BIOL 2404 Anatomy and Physiology

• Kinesiology Secondary Option II

(Major or First Teaching Field) — Requires second teaching field

Required Courses 24 hours

- KIN 1351 Introduction to Kinesiology
- KIN 1354 Safety and First Aid
- KIN 3312 Dance Activities for Adolescents
- KIN 3319 Tumbling and Gymnastics
- KIN 3345 Biomechanics
- KIN 3353 Physiology of Exercise
- KIN 3365 Tests and Measurements in Kinesiology
- KIN 4351 Adapted Kinesiology

No Image Available due to file size.

Designated Electives 16 hours

Professional Kinesiology Courses 6 hours

Select 6 hours from the following:

- KIN 3300 Theory of Football
- KIN 3302 Teaching Individual Sports
- KIN 3303 Theory of Basketball
- KIN 3304 Theory of Baseball
- KIN 3305 Theory of Track and Field
- KIN 3320 Theory of Volleyball
- KIN 3333 Theory of Soccer

Kinesiology Activity Courses 8 hours

Select one course from Areas 1-4:

NOTE: All departmental courses listed as either "Intermediate or II" require the satisfactory prerequisite completion of a similar content course listed as either basic, beginning or level I or must satisfactorily demonstrate requisite skill level proficiency to course instructor. Students lacking the prerequisite courses and/or skill levels who enroll in intermediate or level II courses will be dropped by the course instructor.

Area 1: Team Sports

| | |
|----------|------------------|
| KIN 1250 | Speedball-Soccer |
| KIN 1255 | Softball |
| KIN 2201 | Flag Football |
| KIN 2202 | Volleyball |
| KIN 2221 | Basketball |

Area 2: Dual Sports

| | |
|----------|----------------|
| KIN 2203 | Badminton I |
| KIN 2204 | Tennis I |
| KIN 2213 | Badminton II |
| KIN 2241 | Racquetball I |
| KIN 2242 | Racquetball II |
| KIN 2256 | Tennis II |
| KIN 2264 | Fencing |

Area 3: Aquatics

| | |
|----------|--------------------------|
| KIN 1200 | Swimming I |
| KIN 2280 | Lifeguard Training |
| KIN 2281 | Water Safety Instruction |
| KIN 2282 | Scuba Diving |

Area 4: Others

Select any course from those not listed previously.

TOTAL **38 hours**

COMM 1303 or COMM 1313 **3 hours**

TOTAL **41 hours**

Professional Education **21 hours**

| | |
|-----------|-----------------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4641 | Secondary Internship II |
| EDHS 3305 | Educational Psychology |
| EDUK 4354 | Kinesiology in the Public Schools |
| READ 4351 | Developmental Reading in Secondary Schools |

Other Requirements **8 hours**

| | |
|-----------|------------------------|
| BIOL 2403 | Anatomy and Physiology |
| BIOL 2404 | Anatomy and Physiology |

• **Kinesiology Secondary Option II**

(Minor or Second Teaching Field)

Required Courses **24 hours**

| | |
|----------|----------------------------------|
| KIN 1351 | Introduction to Kinesiology |
| KIN 1354 | Safety and First Aid |
| KIN 2354 | Biomechanics |
| KIN 3312 | Dance Activities for Adolescents |

| | |
|----------|---------------------------------------|
| KIN 3319 | Tumbling and Gymnastics |
| KIN 3353 | Physiology of Exercise |
| KIN 3365 | Tests and Measurements in Kinesiology |
| KIN 4351 | Adapted Kinesiology |

Kinesiology Wellness Activity Courses **6 hours**

Six hours activity wellness classes:

KIN 1200 (or another aquatics) 1201, and 2 hours elective

TOTAL **30 hours**

Professional Education (Preferred) **18 hours**

| | |
|-----------|-----------------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4641 | Secondary Internship II |
| EDHS 3305 | Educational Psychology |
| EDUK 4354 | Kinesiology in the Public Schools |
| READ 4351 | Developmental Reading in Secondary Schools |

Recommended Courses **8 hours**

| | |
|-----------|------------------------|
| BIOL 2403 | Anatomy and Physiology |
| BIOL 2404 | Anatomy and Physiology |

• **Kinesiology All-Level Option II**

(Major or First Teaching Field) — Requires a second teaching field.

Required Courses **27 hours**

| | |
|----------|---------------------------------------|
| KIN 1351 | Introduction to Kinesiology |
| KIN 1354 | Safety and First Aid |
| KIN 3313 | Dance Activities for Children |
| KIN 3319 | Tumbling and Gymnastics |
| KIN 3345 | Biomechanics |
| KIN 3353 | Physiology of Exercise |
| KIN 3356 | Movement Exploration |
| KIN 3365 | Tests and Measurements in Kinesiology |
| KIN 4351 | Adapted Kinesiology |

Designated Electives **11 hours**

Professional Kinesiology Courses **3 hours**

Select one of the following:

| | |
|----------|--------------------------------------------------------|
| KIN 3300 | Theory of Football |
| KIN 3302 | Teaching Individual Sports |
| KIN 3303 | Theory of Basketball |
| KIN 3304 | Theory of Baseball |
| KIN 3305 | Theory of Track and Field |
| KIN 3320 | Theory of Volleyball |
| KIN 3333 | Theory of Soccer |
| KIN 3352 | Care, Treatment and Prevention of Athletic Injuries |

Kinesiology Activity Courses **8 hours**

(This requirement is in addition to the General Education requirements.)

Select one course from Areas 1-4:

NOTE: All departmental courses listed as either "Intermediate or II" require the satisfactory prerequisite completion of a similar content course listed as either basic, beginning or level I or must satisfactorily demonstrate requisite skill level proficiency to course instructor. Students lacking the prerequisite courses and/or skill levels who enroll in intermediate or level II courses will be dropped by the course instructor.

Area 1: Team Sports

| | |
|----------|------------------|
| KIN 1250 | Speedball-Soccer |
| KIN 1255 | Softball |
| KIN 2201 | Flag Football |
| KIN 2202 | Volleyball |
| KIN 2221 | Basketball |

Area 2: Dual Sports

| | |
|----------|----------------|
| KIN 2203 | Badminton I |
| KIN 2204 | Tennis I |
| KIN 2213 | Badminton II |
| KIN 2241 | Racquetball I |
| KIN 2242 | Racquetball II |
| KIN 2256 | Tennis II |
| KIN 2264 | Fencing |

Area 3: Aquatics

| | |
|----------|--------------------------|
| KIN 1200 | Swimming |
| KIN 2280 | Lifeguard Training |
| KIN 2281 | Water Safety Instruction |
| KIN 2282 | SCUBA Diving |

Area 4: Others

Select any course from those not listed previously.

TOTAL **38 hours**

COMM 1303 or COMM 1313 **3 hours**

TOTAL **41 hours**

Professional Education **18 hours**

| | |
|-----------|------------------------------------|
| EDCI 4301 | Foundations of Education |
| EDCI 4302 | Educational Psychology |
| EDCI 4307 | Secondary Curriculum: Internship I |

| | |
|-----------|-----------------------------------------------|
| READ 4351 | Developmental Reading in Secondary Schools |
| EDCI 4699 | Internship-All Levels |
| EDUK 4354 | Kinesiology in the Public Schools |

Other Requirements **8 hours**

| | |
|-----------|------------------------|
| BIOL 2403 | Anatomy and Physiology |
| BIOL 2404 | Anatomy and Physiology |

• **Athletic Coaching Specialization**

In an effort to meet the demand for men and women coaches in all sports, an Athletic Coaching Specialization Certificate is offered. With the completion of this program, a Departmental Certificate is awarded. The student need not be either a major or minor in kinesiology to complete this program.

To be eligible to receive the Athletic Coaching Specialization Certificate, the student must complete the following program of study:

Required Courses **12 hours**

| | |
|----------|--------------------------------------------------------|
| KIN 3345 | Biomechanics |
| KIN 3352 | Care, Treatment and Prevention of Athletic Injuries |
| KIN 3353 | Physiology of Exercise |
| HLTH/ | |
| KIN1354 | Safety and First Aid |

Designated Electives **12 hours**

Select four from the following:

| | |
|----------|----------------------------|
| KIN 3300 | Theory of Football |
| KIN 3302 | Teaching Individual Sports |
| KIN 3303 | Theory of Basketball |
| KIN 3304 | Theory of Baseball |
| KIN 3305 | Theory of Track and Field |
| KIN 3320 | Theory of Volleyball |
| KIN 3333 | Theory of Soccer |

• **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 or
 KIN 3353 Physiology of Exercise
 KIN 1354 Safety and First Aid
 (must include CPR Certification)
 KIN 3345 Biomechanics
 KIN 3352 Care, Treatment and Prevention
 of Athletic Injuries
 Health — any 3 hours

Apprenticeship (Internship) Requirements

1. Scheduled interview with UT Pan American Head Athletic Trainer.
2. Minimum of three academic years (six semesters of fall and spring) under direct supervision of State Licensed Athletic Trainer (UT Pan American Head Athletic Trainer).
3. A minimum of 600 supervised "lab clock hours" each year for a total of 1,800 hours.
4. Enrollment as a full-time student at UT Pan American during each of the three academic years (six semesters).

Application Requirements for Texas State License Exam

1. Student must request an application from the Texas Department of Health.
2. Student must be within 30 hours of graduation and must have completed at least 1,500 clock hours (five semesters) of Apprenticeship.

Texas State License is granted:

1. Once applicant has successfully passed the Texas State License Exam.
2. Once applicant has provided proof of graduation from UT Pan American.
3. Once applicant has all documentation regarding apprenticeship and course requirements in order.
4. Once applicant has paid his/her licensure fee.
5. If applicant has not been convicted of a felony or misdemeanor relating to the duties of an athletic trainer.

◆ Course Descriptions

A listing of courses offered by the Department of Health and Kinesiology can be found on pages 294 and 297.

◆ Major in Dance: Performance Track**Required Courses****22 hours**

- DANC 1201 Dance Improvisation
 DANC 2203 Music for Dancers
 DANC 3112 Dance Performance: Intl/Adv
 (2 Hrs required)
 DANC 3202 Choreography I
 DANC 3309 Dance History I
 DANC 3310 Dance History II
 DANC 3311 Dance Production
 DANC 3320 Dance Science
 DANC 4202 Choreography II

Required Dance Techniques Courses —

at least 16 advanced hours and 14 hours each from two different Techniques (one of which must be Modern or ballet) from:

- DANC 2241 Ballet I: Primary Technique
 DANC 2242 Ballet II: Secondary Technique
 DANC 2245 Modern Dance I : Primary Technique
 DANC 2246 Modern Dance I : Secondary
 Technique
 DANC 2249 Mexican Dance I: Primary Technique
 DANC 2250 Mexican Dance I: Secondary
 Technique
 DANC 2253 Spanish Dance I: Primary Technique
 DANC 2254 Spanish Dance I: Secondary
 Technique
 DANC 3241 Ballet II: Primary Technique
 DANC 3242 Ballet II: Secondary Technique
 DANC 3245 Modern Dance II : Primary
 Technique
 DANC 3246 Modern Dance II : Secondary
 Technique
 DANC 3249 Mexican Dance II: Primary Technique
 DANC 3250 Mexican Dance II: Secondary
 Technique
 DANC 3253 Spanish Dance II: Primary Technique
 DANC 3254 Spanish Dance II: Secondary
 Technique
 DANC 4241 Ballet III: Primary Technique
 DANC 4242 Ballet III: Secondary Technique
 DANC 4245 Modern Dance III : Primary
 Technique
 DANC 4246 Modern Dance III : Secondary
 Technique
 DANC 4249 Mexican Dance III: Primary
 Technique
 DANC 4250 Mexican Dance III: Secondary
 Technique

- DANC 4253 Spanish Dance III: Primary Technique
 DANC 4254 Spanish Dance III: Secondary Technique

Additional Requirements 24 hours

- DANC 4102 Senior Project
Select 2 hours from:
 DANC 2112 Dance Performance: Beginning/Intermediate
 DANC 3112 Dance Performance: Intermediate/Advanced
Select 3 hours from:
 DANC 3312 Dance Philosophy and Criticism
 DANC 3313 World Dance
Select 3 hours from:
 DANC 4310 Dance Theory: Ballet, Modern, Jazz
 DANC 4311 Dance Theory: Folk
 DANC 4312 Dance Theory: Children's Dance

Select 18 additional (6 must be advanced) advanced hours

TOTAL 77 hours

Other Requirements

BIOL 2403, 2404

◆ Major in Dance: Secondary Certification Option I

Required Courses 22 hours

- DANC 1201 Dance Improvisation
 DANC 2203 Music for Dancers
 DANC 3112 Dance Performance: Intl/Adv (2 Hrs required)
 DANC 3202 Choreography I
 DANC 3309 Dance History I
 DANC 3310 Dance History II
 DANC 3311 Dance Production
 DANC 3320 Dance Science
 DANC 4202 Choreography II

Required Dance Techniques Courses

- at least 16 advanced and 10 hours each from two different Techniques (one of which must be modern) from:
 DANC 2241 Ballet I: Primary Technique
 DANC 2242 Ballet I: Secondary Technique
 DANC 2245 Modern Dance I : Primary Technique
 DANC 2246 Modern Dance I : Secondary Technique

- DANC 2249 Mexican Dance I: Primary Technique
 DANC 2250 Mexican Dance I: Secondary Technique
 DANC 2253 Spanish Dance I: Primary Technique
 DANC 2254 Spanish Dance I: Secondary Technique
 DANC 3241 Ballet II: Primary Technique
 DANC 3242 Ballet II: Secondary Technique
 DANC 3245 Modern Dance II: Primary Technique
 DANC 3246 Modern Dance II: Secondary Technique
 DANC 3249 Mexican Dance II: Primary Technique
 DANC 3250 Mexican Dance II: Secondary Technique
 DANC 3253 Spanish Dance II: Primary Technique
 DANC 3254 Spanish Dance II: Secondary Technique
 DANC 4241 Ballet III: Primary Technique
 DANC 4242 Ballet III: Secondary Technique
 DANC 4245 Modern Dance III: Primary Technique
 DANC 4246 Modern Dance III: Secondary Technique
 DANC 4249 Mexican Dance III: Primary Technique
 DANC 4250 Mexican Dance III: Secondary Technique
 DANC 4253 Spanish Dance III: Primary Technique
 DANC 4254 Spanish Dance III: Secondary Technique

Additional Requirements 13 hours

- DANC 4102 Senior Project
Select 6 hours from:
 DANC 4310 Dance Theory: Ballet, Modern, Jazz
 DANC 4311 Dance Theory: Folk
 DANC 4312 Dance Theory: Children's Dance
Select 3 hours from:
 DANC 3312 Dance Philosophy and Criticism
 DANC 3313 World Dance

Electives 3 hours

Professional Education Courses 21 hours

- EDCI 4301 Foundations of Education
 EDHS 3305 Instructional Methods for English Language Learners with Exceptionalities in the High School
 EDCI 4307 Secondary Curriculum: Internship I
 READ 4351 Developmental Reading in Secondary Schools

EDCI 4641 Secondary Internship II
DANC 4313 Dance in the Public Schools

TOTAL **76 hours**

Other Requirements

BIOL 2403 and 2404

◆ **Major in Dance: Secondary Certification
Track Option II**

Required Courses **22 hours**

DANC 1201 Dance Improvisation
DANC 2203 Music for Dancers
DANC 3113 Dance Performance: Intl/Adv
(2 hrs required)
DANC 3202 Choreography I
DANC 3309 Dance History I
DANC 3310 Dance History II
DANC 3311 Dance Production
DANC 3320 Dance Science
DANC 4202 Choreography II

Required Dance Technique Courses

at least 4 advanced **10 hours**

and 4 hours each from two different techniques
(one of which must be modern) from:

DANC 2241 Ballet I: Primary Technique
DANC 2242 Ballet I: Secondary Technique
DANC 2245 Modern Dance I: Primary Technique
DANC 2246 Modern Dance I: Secondary
Technique
DANC 2249 Mexican Dance I: Primary Technique
DANC 2250 Mexican Dance I: Secondary
Technique
DANC 2253 Spanish Dance I: Primary Technique
DANC 2254 Spanish Dance I: Secondary
Technique
DANC 3241 Ballet II: Primary Technique
DANC 3242 Ballet II: Secondary Technique
DANC 3245 Modern Dance II: Primary Technique
DANC 3246 Modern Dance II: Secondary
Technique
DANC 3249 Mexican Dance II: Primary Technique
DANC 3250 Mexican Dance II: Secondary
Technique
DANC 3253 Spanish Dance II: Primary Technique
DANC 3254 Spanish Dance II: Secondary
Technique
DANC 4241 Ballet III: Primary Technique
DANC 4242 Ballet III: Secondary Technique

DANC 4245 Modern Dance III: Primary
Technique

DANC 4246 Modern Dance III: Secondary
Technique

DANC 4249 Mexican Dance III: Primary
Technique

DANC 4250 Mexican Dance III: Secondary
Technique

DANC 4253 Spanish Dance III: Primary Technique

DANC 4254 Spanish Dance III: Secondary
Technique

Additional Requirements **4 hours**

DANC 4102 Senior Project

Select 3 hours from:

DANC 4310 Dance Theory: Ballet, Modern, Jazz

DANC 4311 Dance Theory: Folk

DANC 4312 Dance Theory: Children's Dance

TOTAL **24 hours**

• **Second Teaching Field**

Professional Education Courses

EDCI 4301 Foundations of Education

EDHS 3305 Instructional Methods for English
Language Learners and Learners
with Exceptionalities in
the High School

EDCI 4307 Secondary Curriculum: Internship I

READ 4351 Developmental Reading in
Secondary Schools

EDCI 4641 Secondary Internship II

DANC 4313 Dance in the Public School

TOTAL **57 hours**

TOTAL **81 hours**

Other Requirements

BIOL 2403 and 2404

◆ **Minor in Dance (Non-Certified)**

Required Courses **16 hours**

DANC 1201 Dance Improvisation

DANC 3309 Dance History I

DANC 3310 Dance History II

DANC 3311 Dance Production

Select 2 hours from:

DANC 3202 Choreography I

DANC 2203 Music Dancers

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Select 3 hours from:

- DANC 3312 Dance Philosophy and Criticism
- DANC 3313 World Dance
- DANC 3320 Dance Science

Required Dance Technique Courses

at least 4 advanced

8 hours each from two different Techniques from:

- DANC 2241 Ballet I: Primary Technique
- DANC 2242 Ballet I: Secondary Technique
- DANC 2245 Modern Dance I: Primary Technique
- DANC 2246 Modern Dance I: Secondary Technique
- DANC 2249 Mexican Dance I: Primary Technique
- DANC 2250 Mexican Dance I: Secondary Technique
- DANC 2253 Spanish Dance I: Primary Technique
- DANC 2254 Spanish Dance I: Secondary Technique
- DANC 3241 Ballet II: Primary Technique
- DANC 3242 Ballet II: Secondary Technique
- DANC 3245 Modern Dance II: Primary Technique
- DANC 3246 Modern Dance II: Secondary Technique
- DANC 3249 Mexican Dance II: Primary Technique

- DANC 3250 Mexican Dance II: Secondary Technique
- DANC 3253 Spanish Dance II: Primary Technique
- DANC 3254 Spanish Dance II: Secondary Technique
- DANC 4241 Ballet III: Primary Technique
- DANC 4242 Ballet III: Secondary Technique
- DANC 4245 Modern Dance III: Primary Technique
- DANC 4246 Modern Dance III: Secondary Technique
- DANC 4249 Mexican Dance III: Primary Technique
- DANC 4250 Mexican Dance III: Secondary Technique
- DANC 4253 Spanish Dance III: Primary Technique
- DANC 4254 Spanish Dance III: Secondary Technique

TOTAL

24 hours

◆ **Course Descriptions**

A listing of Dance courses can be found on page 268.

College of Health Sciences & Human Services

► General Overview

Recognizing the need for the University to take a leading role in the education of health care and human service professionals, the college, with the assistance and cooperation of regional facilities, is dedicated to providing educational programs necessary to meet the needs for competent health and human service professionals in the Rio Grande Valley and Texas.

► Academic Programs

The College of Health Sciences and Human Services offers a Bachelor of Science degree in Clinical Laboratory Sciences, Dietetics, Nursing, Rehabilitative Services, Communication Sciences and Disorders, and a Bachelor of Social Work degree. Physician Assistant Studies and Occupational Therapy programs are also offered at the baccalaureate level. Communication Disorders, Nursing, Rehabilitation Counseling and Social Work offer programs leading to the granting of master's degrees at the graduate level. More information on master's degrees is available in the Graduate Catalog.

General admission requirements conform to those of the University. Specific variations of requirements are stated within each program description.

The faculty of the college provide academic advisement and assistance to students pursuing careers in health sciences and human services. Curricula for programs within the college are structured to provide theory as well as practice-based learning experiences. In order to provide the practice-experience component of the college's programs, the University has negotiated affiliation agreements with numerous health/human service/social service facilities in South Texas and in other regions.

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Dr. William J. McIntyre, *Interim Dean*

Health Sciences and Human Services West (HSHW)

Room 2.230

1201 W. University Drive

Edinburg, Texas 78541-2999

Telephone: 956/381-2291

Fax: 956/384-5054

E-mail: mcintyrew@panam.edu

On the web: <http://www.panam.edu/colleges/cohshs.cfm>

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HEALTH-RELATED PROGRAMS

► Interdisciplinary Courses

Interdisciplinary courses are offered to:

1. promote and provide understanding of the role of personnel involved in the delivery of health care, patient/client education, and human and social services;
2. focus on the team approach to patient and client care in the delivery of health and human services;
3. introduce the student to the wide range of available careers in the sectors of health and social and human services; and
4. provide the student with a working knowledge of medical terminology.

Another interdisciplinary course is offered to teach basic clinical nutrition concepts.

A listing of these courses can be found under the heading "Health-Related Programs Interdisciplinary Courses" in the Course Descriptions section of this catalog. See page 296.

CLINICAL LABORATORY SCIENCES

Prof. Karen Chandler, *Program Coordinator*

Health Sciences and Human Services West (HSHW)
Room 2.206

Telephone: 956/318-5269

Fax: 956/ 318-5253

E-mail: kchandler@panam.edu

Full-time Faculty

Chandler, Karen, *Associate Professor*

Eyambe, George, *Associate Professor*

Hunter, Karen, *Lecturer*

Tijerina, Sandra L., *Associate Professor*

► Clinical Laboratory Science Program Mission Statement

The Clinical Laboratory Science Program supports and facilitates the Mission of the University of Texas-Pan American by providing a quality educational experience which prepares clinical laboratory scientists for leadership roles in a multicultural healthcare system. It is committed to providing an environment of academic freedom in which students learn from faculty who have expertise in the profession. Excellence in teaching is enhanced by faculty engaged in research and creative activity as well as professional service to the profession, the University and the local community.

► Curriculum 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 healthcare team.
4. Prepare students to meet the unique challenges of a multicultural border health region.

► General Overview

Clinical Laboratory Sciences (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 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.

► Admission Requirements

In order to be accepted into the Clinical Laboratory Sciences Program, the student must submit an application to the Clinical Laboratory Sciences Program upon completion of 70 hours of pre-professional coursework, but no later than March 31 of his or her junior year. 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.

◆ Admission Course Prerequisites

UTPA Core **48 hours**
Complete the requirements in the General Education Core EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Science and Mathematics

Group 1. Natural Science

Students must select BIOL 1401 and BIOL 1402.

Science Support Courses 24 hours

Required Courses

| | |
|-----------------------|--------------------------------|
| BIOL 3401 | General Microbiology |
| CHEM 1301 and 1101 | General Chemistry I |
| CHEM 1302 and 1102 | General Chemistry II |
| CHEM 2302 and 2102 | Organic Chemistry I |
| CHEM 2303 and 2103 | Organic Chemistry II <i>or</i> |
| CHEM 3303 and 3103 | Biochemistry |

Approved biology course to be selected from any of the following:

| | |
|-----------|-------------------------------------|
| BIOL 3403 | Medical Microbiology and Immunology |
| BIOL 3412 | Cell Biology |
| BIOL 3413 | Genetics |
| BIOL 4406 | Mycology |
| BIOL 4407 | Animal Parasitology |

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 must complete all non-Clinical Laboratory Science coursework prior to entering the program. CLSC 3301 is an introductory-level course, and students are strongly encouraged to take this course prior to actually entering the professional phase of the program.

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 Sciences from The University of Texas-Pan American will be handled in accordance with University policies and must meet all applicable degree requirements.

C. Readmission to the program is not automatic and is on a space-available basis.

Other Requirements

A minimum GPA of 2.0 and a minimum science GPA of 2.0 is required for admission to the program.

◆ Alternate Admission Pathways

A. A student who does not wish to receive a degree from The University of Texas-Pan American but who wishes to attend the professional portion of the curriculum must meet one of the following requirements:

1. hold a baccalaureate degree from an accredited institution and have a minimum of 16 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 preprofessional coursework at their parent institution with 16 semester hours of biology, including a course in microbiology, 16 semester hours of chemistry including inorganic and organic or biochemistry, 3 semester hours of college-level mathematics; and an affiliation agreement between The University of Texas-Pan American and his/her parent university stating that, upon satisfactory completion of the Clinical Laboratory Sciences curriculum offered at The University of Texas-Pan American, the student will be awarded a baccalaureate degree.

► Certification Requirements

Certification requires a baccalaureate degree including 16 hours of biological sciences, 16 hours of chemistry, 3 hours of college mathematics and completion of the accredited Clinical Laboratory Sciences Program. Microbiology, immunology and organic chemistry courses should be part of the curriculum. All professional courses must be completed with a grade of "C" or better.

► Degree Requirements

◆ Major in Clinical Laboratory Sciences

Admission Prerequisite Requirements 72 hours
See previous page

Major Course Requirements 58 hours

| | |
|-----------|---------------------------------------------|
| CLSC 3301 | Introduction to Clinical Laboratory Science |
| CLSC 3410 | Hematology I |
| CLSC 3513 | Clinical Immunology and Immunoematology |
| CLSC 3420 | Clinical Chemistry I |
| CLSC 3530 | Clinical Microbiology I |
| CLSC 4303 | Medical Laboratory Leadership |
| CLSC 4311 | Clinical Hematology II |
| CLSC 4112 | Advanced Hematology |
| CLSC 4314 | Advanced Immunoematology |
| CLSC 4115 | Advanced Clinical Immunology |
| CLSC 4421 | Clinical Chemistry II |
| CLSC 4322 | Advanced Clinical Chemistry |
| 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.

Other Requirements

Students must complete all professional courses with a grade of "C" or better. Students who receive a "D" or below in the on-campus professional courses will not be allowed to proceed to clinical practicums until a

satisfactory grade of "C" or better is attained. Re-admission to the program is not automatic and is on a space-available basis.

TOTAL **130 hours**

◆ Course Descriptions

A listing of courses offered by the Program in Clinical Laboratory Sciences can be found on page 251.

COMMUNICATION SCIENCES & DISORDERS

Dr. Denis Newman, *Department Chair*

Health Sciences and Human Services West (HSHW)
Room 1.264
Telephone: 956/316-7040
Fax: 956/318-5238
E-mail: tmpistok@panam.edu

Full-time Faculty

Mata-Pistokache, Teri, *Associate Professor*
Meline, Timothy J., *Professor*
Molinar, Monica R., *Lecturer*
Newman, Denis, *Professor*
Parchman-Gonzalez, Keri, *Lecturer, Clinic Coordinator*
Radford, Nola, *Associate Professor*
Salinas, Sonya, *Lecturer*
Sibley, Keith, *Lecturer*
Wang, Bailey, *Assistant Professor*
Nericcio, Mary Anne, *Assistant Professor*

► Major in Communication Disorders

The Bachelor of Arts 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. Because certification requirements require a graduate degree to practice in the field, this Bachelor of Arts degree is not designed to prepare its graduates for immediate employment in either profession. However, graduates of the program are qualified to pursue a variety of

professional careers requiring baccalaureate-level preparation.

◆ Degree Requirements

General Education Requirements **69 hours**

Required Academic Coursework **36 hours**

| | |
|-----------|----------------------------------------------------------------------------------------------------|
| COMD 1310 | Beginning Sign Language |
| COMD 1320 | Intermediate Sign Language |
| COMD 2310 | Introduction to the Profession of Speech-Language Pathology |
| COMD 2320 | Phonetics |
| COMD 3310 | Normal Language Development |
| COMD 3315 | Anatomy and Physiology of the Speech and Hearing Mechanism |
| COMD 3330 | Articulation and Phonology Development |
| COMD 3340 | Audiology I |
| COMD 3350 | Introduction to Speech Science |
| COMD 3360 | Neuroanatomy and Physiology for Speech, Language, Hearing |
| COMD 4310 | Behavior Management for SLP Pathology |
| COMD 4330 | Audiology (Re) Habilitation |
| COMD 4350 | Clinical Applications |
| COMD 4360 | Language Disorders in Children I |
| COMD 4365 | Functional Speech Disorders |
| COMD 4370 | Professional Report Writing Language in Speech Language Pathology |
| COMD 4380 | Clinical Problem Solving |
| COMD 4390 | Principles of Assessment of Speech Language Pathology |
| MATH 2330 | Survey of Elementary Statistics |
| PHIL 2330 | Ethics |
| SOC 1313 | Principles of Sociology |
| SPED 4301 | Strategies, Methods and Materials or Teaching Individuals with Mild to Moderate Disabilities |
| SPED 1305 | Introduction to the Exceptionalities |

Electives **7 hours**

TOTAL **124 hours**

◆ Course Descriptions

A listing of courses offered by the Department of Communication Sciences and Disorders can be found on page 253.

COORDINATED PROGRAM IN DIETETICS

Dr. Esperanza Briones, *Program Coordinator*

Health Sciences and Human Services West (HSHW)

Room 2.226

Telephone: 956/318-5264

Fax: 956/ 318-5265

E-mail: ebriones@panam.edu

Full-time Faculty

Briones, Esperanza, *Associate Professor*

Edionwe, Alexander, *Associate Professor*

Faraji, Bahram (Bob), *Associate Professor*

► General Description

The Dietetics Program prepares students to successfully complete the national registration examination and be qualified for entry-level positions in administrative, clinical or community dietetics. Graduates will possess additional knowledge and skills that will enable them to work with the specific and unique needs of the local community which is largely Mexican-American, as well as other areas of the country with large Hispanic populations.

The goals of the Dietetics Program are to train students to deliver high quality nutrition services to diverse clients and community groups in various settings, to develop communication, leadership, and teamwork skills which will carry to the professional setting and to lead them toward continued pursuit of goals of continuous education and involvement as dietitians.

The accelerated program combines the academic study of dietetics with the opportunity to apply knowledge in a professional setting. Qualified students complete their education in dietetics in a variety of settings during their junior and senior years. Upon successful completion, students earn a Bachelor of Science degree with a major in Dietetics. Upon graduation, they are eligible to become an active member of the American Dietetic Association and take the examination to become a Registered Dietitian (RD) and Licensed Dietitian (LD).

The Dietetics Program is accredited by the American Dietetic Association Commission on Accreditation/Approval for Dietetics Education (CADE).

◆ Requirements for Admission to the Dietetics Program

A. *Submission of the following:*

1. Completed application for admission to the Coordinated Program in Dietetics. Call 956/318-5264 for information.

2. Official transcript showing completion of at least 60 hours with a minimum of 2.5 grade point average to include (or to include at start of the program):

ENG 1301 and ENG 1302

MATH 2330

Science Support Courses: BIOL 2403, BIOL 2404 and BIOL 3401 or CLSC 2429, CHEM 1301, 1101, CHEM 1302, 1102, CHEM 2102, CHEM 2302 and CHEM 3103, 3303

Dietetic Core: HRP 2303, DIET 2351 and DIET 2352

NOTE: A minimum GPA of 2.0 with a minimum grade of "C" in each course is required in the Science Support Courses. A minimum GPA of 2.5 with a minimum grade of "C" in HRP 2303, DIET 2352 is required. DIET 2351 is required in the Dietetic Core.

3. Three letters of recommendation.
4. Handwritten letter from the applicant stating reason for interest in the Dietetics program.
5. Results of the Nelson-Denny Reading Test (test administered through the Learning Assistance Center).

6. 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 first Monday in April.

2. Grade point average overall and in science courses.

3. Evaluation of selected references and criteria.

4. Score on the Nelson-Denny Reading Test.
5. Responses to the student interview with the Admissions Committee.

◆ Readmission

Readmission is not automatic. Students desiring readmission 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 Dietetics Program Student Guidebook available in the department.

► Major in Dietetics

◆ Degree Requirements

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section on pages 91-93 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, 1101 and CHEM 1302, 1102. 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 one course from Area 2, Economics, and Area 3, Psychology 1310.

Science Support Courses **20-28 hours***

| | |
|-----------|--------------------------------|
| CHEM 1301 | General Chemistry |
| CHEM 1101 | General Chemistry Lab I |
| CHEM 1302 | General Chemistry |
| CHEM 1102 | General Chemistry Lab II |
| CHEM 2102 | Organic Chemistry Lab |
| CHEM 2302 | Organic Chemistry I |
| CHEM 3103 | Biochemistry Laboratory |
| CHEM 3303 | Biochemistry |
| BIOL 2403 | Anatomy and Physiology |
| BIOL 2404 | Anatomy and Physiology |
| BIOL 3401 | General Microbiology <i>or</i> |
| CLSC 2429 | Clinical Microbiology |

*If the student completes BIOL 2403 and BIOL 2404 or CHEM 1301, 1101 and CHEM 1302, 1102 as part

of the General Education Requirements, only 20 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 **6 hours**

| | |
|-----------|------------------------------------------------------|
| MANA 3361 | Principles of Management and Organizational Behavior |
| ECON 1301 | Introduction to Economics |

Admission Prerequisite

Dietetic Core Courses **9 hours**

| | |
|-----------|------------------------------------|
| DIET 2352 | Food Preparation |
| HRP 2303 | Medical Terminology |
| DIET 2351 | Introduction to Clinical Nutrition |

Dietetic Professional Courses **48 hours**

(Enrollment eligibility based on acceptance into the Dietetics Program.)

• First year (Junior)

| | |
|-----------|-----------------------------------|
| DIET 3452 | Quantity Foods Production |
| DIET 3353 | Advanced Nutrition |
| DIET 3354 | Food Systems Management |
| DIET 3655 | Food Systems Management Practicum |
| DIET 3356 | Experimental Foods |
| DIET 3357 | Medical Nutrition Therapy I |
| DIET 3358 | Medical Nutrition Therapy II |

• Second year (Senior)

| | |
|-----------|------------------------------------|
| DIET 4852 | Clinical Nutrition Practicum |
| DIET 4455 | Community Nutrition Practicum |
| DIET 4456 | General Dietetics Practicum |
| DIET 4257 | Seminar in Dietetics |
| DIET 4358 | Communication Skills in Dietetics |
| DIET 4259 | Community and Life Cycle Nutrition |

Other Requirements

A minimum grade of "C" is required for all Dietetics (DIET) courses (lecture, labs and clinicals) and for all science support courses.

TOTAL 131 hours

◆ Course Descriptions

A listing of courses offered by the Coordinated Program in Dietetics can be found on pages 271.

NURSING

Dr. Carolina G. Huerta, *Department Chair*

Health Sciences and Human Services East (HSHE)

Room 2.192

Telephone: 956/381-3491

Fax: 956/381-2875

E-mail: chuerta@panam.edu

Full-time Faculty

Bacchus, Donna, *Clinical Specialist*

Cantú-Cabrera, Juana, *Lecturer*

Delgado, Diana, *Assistant Professor*

Dowdall, Shannon, *Assistant Professor*

Eanes, Linda, *Assistant Professor*

Erdem, Orelia, *Clinical Specialist*

Evans, Mary, *Lecturer*

Garza, Viola, *Lecturer*

Guzman, Isabel (Penny), *Clinical Specialist*

Huerta, Carolina, *Professor*

James, Barbara, *Lecturer*

Johnson, Betty A., *Assistant Professor*

LaGrange, Diane, *Assistant Professor*

Maville, Janice A., *Professor*

Milan, Cindy L., *Assistant Professor*

Nieto, Beatriz, *Assistant Professor*

Sánchez, M. Sandra (Sandy), *Associate Professor*

Sullivan, Pamela, *Assistant Professor*

Tamez, Eloisa, *Assistant Professor*

Taplay, Karyn, *Lecturer*

Tucker, Barbara A., *Professor*

Voss, Judy, *Lecturer*

Wilson, Bruce K., *Associate Professor*

► General Overview

The Nursing Department offers a Bachelor of Science in Nursing and a Master of Science in Nursing, both accredited by the Board of Nurse Examiners for the State of Texas and the National League for Nursing (National League for Nursing Accreditation Commission, 350 Hudson Street, New York, NY 10014, 212/989-9393).

The Nursing Department supports the mission of the College of Health Sciences and Human Services through programs that educate individuals to meet the health care needs of a culturally diverse society. These programs facilitate the development of competent practitioners with critical thinking skills to provide

holistic nursing care to individuals, families, aggregates, and communities. A commitment 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.

Generic BSN graduates are eligible to apply to the Texas State Board of Nurse Examiners 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: 956/381-3491

E-mail: ssanchez@panam.edu

◆ Requirements for Admission to the BSN Program

1. Meet UT Pan American's admission requirements.
2. Have a minimum 2.5 grade point average (GPA) on a 4.0 scale on all prerequisite courses.
3. Complete all prerequisites with a minimum grade of "C" in each course (see detail below).
4. Pass math quiz (grade of 100).
5. Provide proof of current certification in cardiopulmonary resuscitation (CPR; health care provider).
6. Provide documentation verifying absence of active pulmonary disease.
7. Provide documentation verifying current immunization or immunity status for specified diseases (Hepatitis B, Measles, Mumps, Rubella, Tetanus/Diphtheria, Varicella, etc.).
8. Alternate pathway applicants: Be a registered nurse in the state of Texas or have a temporary permit

to practice professional nursing in Texas.

9. Submit application to the BSN Program by October 1.

10. Be admitted by the BSN Student Development Committee. After being rank-ordered according to prerequisite GPA, students will be admitted on a space-available basis.

◆ Prerequisite Course Requirements for Admission

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 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

BIOL 2403 and BIOL 2404 must be selected.

Group 2. Mathematics

MATH 2330 must be selected.

Section E. Social Science

Group 3. Other Social Science

ANTH 1323 (from Area 1, Anthropology) *or*
SOCI 1313 (from Area 4, Sociology) must be selected.

Other Course Requirements **22-25 hours**

Science **8 hours**

| | | |
|-----------------------|----------------------------------------------|---------|
| CLSC 2429 | Clinical Microbiology | |
| CHEM 1301 and 1101 | General Chemistry I and Lab Nutrition | 3 hours |
| DIET 2351 | Introduction to Clinical Nutrition <i>or</i> | |
| HLTH 2372 | Nutrition and Health | |

Nursing (Generics only) **3 hours**

NURS 2301 Wellness

Psychology **6 hours**

| | | |
|----------|----------------------------------------|--|
| PSY 3337 | Developmental Psychology: Life Span | |
| PSY 1310 | Introduction to Psychology | |

Kinesiology (activity) **2 hours**

Modern Language (in same language) **3 hours**

◆ BSN Advisement

Current and prospective BSN students must be advised by a BSN advisor every semester.

◆ Exceptions to Admission Criteria

Students may formally petition the BSN Student Development Committee for exceptions to the admission criteria. Each request will be evaluated on an individual basis.

◆ Advanced Placement

Alternate Pathway (RN) students may be granted credit for selected BSN courses after approval by the BSN Student Development Committee.

◆ Computerized Background Checks

According to the Texas Nurse Practice Act contained in the Texas Occupations Code (Chapters 301 and 303), the Board of Nurse Examiners (BNE) may refuse to admit persons to its examinations who have:

1. been denied licensure by any licensing/certifying authority in any country, state, or province;
2. had disciplinary action taken against their license by any licensing/certifying authority in any country, state, or province;
3. been convicted of a crime other than a minor traffic violation;
4. been diagnosed with, treated, or hospitalized in the last five years for schizophrenia or other psychotic disorders, bipolar disorder, paranoid personality disorder, antisocial personality disorder, or borderline personality disorder;
5. been addicted to or treated for the use of alcohol or any other drug within the past five years;
6. been issued any order concerning eligibility for examination or licensure by the Texas BNE or received a proposal of ineligibility.

Any individual enrolled or planning to enroll in an educational program that prepares an individual for an initial license as a registered nurse who has reason to believe that he/she is ineligible for the license may petition the Board for a declaratory order as to his/her potential ineligibility (Article 301.2570).

◆ 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 inform the BSN Coordinator.

◆ Progression Criteria

To continue enrollment in the BSN program, students must:

1. Maintain at least \$1 million in professional liability insurance.
2. Provide annual documentation verifying absence of active pulmonary disease.
3. Provide documentation verifying current immunization or immunity for selected diseases (Hepatitis B, Measles, Mumps, Rubella, Tetanus/Diphtheria, Varicella, etc.).
4. Provide annual proof of current certification in CPR (health care provider).
5. Maintain a 2.0 GPA on a 4.0 scale.
6. Achieve a minimum grade of "C" in each required course. (Any grade below a "C" is a failing grade.)
7. Satisfactorily complete nursing courses in approved sequence.
8. Alternate Pathway students: Provide evidence of current licensure to practice registered nursing in the State of Texas. Students will not be permitted to continue in clinical courses if a temporary permit expires without a license being issued or if a license to practice registered nursing has expired or been suspended, canceled, or revoked.
9. Seek academic advisement each semester regarding program progression.

◆ Readmission

Readmission into the BSN program is not guaranteed. After failing (or dropping) a BSN course, the student must apply for readmission, in writing, to the BSN Student Development Committee before continuing with nursing courses. Students applying for readmission will be considered on a space-available basis pending recommendation of the BSN Student Development Committee and the consent of the course faculty. Students must apply by April 1 for summer or fall readmission or October 1 for spring readmission.

A student who has failed (or dropped) a clinical course may petition to be allowed to enroll in nonclinical courses. Being allowed to do so does not guarantee that the student will be readmitted into the program. Students being readmitted into BSN courses may be required to demonstrate proficiency in select nursing skills (e.g., psychomotor, psychosocial, cognitive, etc.), as determined by course faculty.

Students are generally not allowed readmission after a year's absence from the BSN program. Students who fail the same BSN course twice are ineligible for readmission into the BSN program.

◆ Graduation Criteria

1. Achieve a minimum grade of "C" in each required course.
2. Satisfactorily complete all required courses.
3. Have a 2.0 GPA on a 4.0 scale.
4. File a Degree Plan approved by the BSN Coordinator.
5. File an acceptable Application for Degree with the Office of Admissions and Records on or before the date specified in the University Calendar.
6. Meet UT Pan American's General Requirements for a Bachelor's Degree.
7. Pass BSN Readiness Exam.

► Degree Requirements for the Bachelor of Science in Nursing

◆ Major in Nursing (BSN Degree)

• Admission Prerequisite Courses

| | |
|-------------------------|-----------|
| Generic Pathway | 73 hours |
| Alternate Pathway | 70 hours* |
| *NURS 2301 not required | |

Nursing Core Courses

| | |
|-----------------------------------------------------------------------------|------------|
| Generic Pathway | 52 hours |
| NURS 3202, 3209, 3403, 3405, 3408, 3604, 3608, 4601, 4602, 4203, 4404, 4607 | |
| Alternate Pathway | 24 hours |
| NURS 3202, 3403, 3407, 3209, 4203, 4404, 4607 plus | |
| | 32 hours** |

**As approved by BSN Student Development Committee.

Designated Electives

| | |
|-------------------|---------|
| Generic Pathway | 0 hours |
| Alternate Pathway | 0 hours |

Other Requirements

1. Achieve a minimum grade of "C" in each required course. (Any grade below "C" is a failing grade.)
 2. Have 2.0 GPA on a 4.0 scale.
- The BSN Program has an advanced placement credit option. Please contact the Nursing department Office for more information.

TOTAL **125 hours (minimum)**

• Semester-by-Semester Generic Curriculum

• Junior Year

Spring (1) 12 hours

| | |
|-----------|----------------------|
| NURS 3202 | Pharmacology |
| NURS 3403 | Client Assessment |
| NURS 3604 | Nursing Fundamentals |

Summer (2) 4 hours

| | |
|-----------|-------------------------------------------------------|
| NURS 3408 | Health Promotion and Maintenance Across the Life Span |
|-----------|-------------------------------------------------------|

Fall (3) 12 hours

| | |
|-----------|-----------------------|
| NURS 3405 | Mental Health Nursing |
| NURS 3608 | Adult Health I |
| NURS 3209 | Research |

• Senior Year

Spring (4) 12 hours

| | |
|-----------|--------------------|
| NURS 4601 | Adult Health II |
| NURS 4602 | Family Health Care |

Fall (5) 12 hours

| | |
|-----------|--------------------------|
| NURS 4203 | Issues in Nursing |
| NURS 4404 | Community Health Nursing |
| NURS 4607 | Leadership in Nursing |

• Semester-by-Semester Alternate Streamlined Pathway Curriculum

(24 hours)

Fall (1) 6 hours

| | |
|-----------|-------------|
| NURS 3407 | RN Mobility |
| NURS 3209 | Research |

Spring (2) 6 hours

| | |
|-----------|-------------------|
| NURS 3202 | Pharmacology |
| NURS 3403 | Client Assessment |

Fall (3) 12 hours

| | |
|-----------|--------------------------|
| NURS 4203 | Issues in Nursing |
| NURS 4404 | Community Health Nursing |
| NURS 4607 | Leadership in Nursing |

Advanced Placement BSN Credit Available (up to 32 SCH)

| | | Alternative Pathway SCH |
|-----------|-------------------------------------------------------|-----------------------------|
| NURS 3604 | Nursing Fundamentals | General Ed 70 |
| NURS 3408 | Health Promotion and Maintenance Across the Life Span | RN Upper-level Credit 32 |
| NURS 3405 | Mental Health Nursing | Nursing 24 |
| NURS 3608 | Adult Health I | 126 |
| NURS 4601 | Adult Health II | |
| NURS 4602 | Family Health Care | |

◆ Course Descriptions

BSN course descriptions can be found on page 315.

OCCUPATIONAL THERAPY PROGRAM

Judith E. Bowen, Program Coordinator

Health Sciences and Human Services East (HSHE)

Room 1.130

Telephone: 956/381-2475

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E-mail: jebowen@panam.edu

Full-time Faculty

Balda, Alicia, *Assistant Professor*
Bowen, Judith E., *Associate Professor*
Scoggin, Angela E., *Associate Professor*
Wells, Shirley, *Assistant Professor*

► General Overview

Occupational therapy is a vital, exciting and rewarding health profession. Therapists work with many different types of patients, helping them to regain independence and health. Occupational therapists work with individuals with a wide variety of conditions including physical illnesses and injuries such as arthritis and stroke, developmental problems of infants and children, social and emotional difficulties of people of all ages, and problems of aging. Therapists also provide services to prevent injuries and promote wellness education.

The therapist helps the patient learn to perform

tasks of living (or occupations) that are essential to an independent and meaningful life. These activities might include eating, dressing, regaining lost skills, learning to manage artificial limbs, retraining eyes and hands through different forms of art and recreation, managing a household or returning to work after injury or illness.

New developments in occupational therapy include the use of work simulators, biofeedback techniques and microcomputers. These technological advances help the patient take a more active part in his or her treatment as it progresses, give the therapist more time to relate to the patient and allow those persons with severe disabilities to successfully manage their environments.

After graduation, a qualified occupational therapist might work in a hospital, clinic, school, rehabilitation center, psychiatric facility, industrial setting, private home, private practitioner environment or community setting.

There are opportunities for career advancement ranging from becoming an expert in specialized aspects of patient treatment to positions in administration, research, education and consultation.

Individuals considering a career in occupational therapy should have an interest in understanding the continuum from wellness to illness. The ability to establish sound interpersonal relationships and to communicate effectively are critical to successful practice.

► The Program

The Bachelor of Science degree in Occupational Therapy requires a minimum of 149 semester hours of credit, 24 hours of which are earned in six months of fieldwork. During the pre-professional phase (freshman and sophomore years), students complete general education requirements and occupational therapy prerequisites. This lower-division work may be taken at any regionally accredited college or university. The professional phase, which is comprised of two years of academic courses and six months of fieldwork, is offered at UT Pan American and clinical facilities.

Completion of the program is required for eligibility to take the national examination for certification as a Registered Occupational Therapist (OTR). A license to practice in the State of Texas is contingent upon passing this examination.

► Admission Requirements

Requirements for admission to the professional phase of the occupational therapy program include a minimum of 60 semester hours of prescribed coursework. Academic considerations include a minimum GPA of 3.0 in prerequisite coursework. Additional admission requirements include a minimum of 20 hours of volunteer and/or observation hours under the general supervision of a registered occupational therapist. Documentation of the volunteer/observation hours, as well as two letters of reference, must be submitted with the admission application. A personal interview is required of all candidates who meet the basic admission requirements.

Additional considerations include nonacademic achievements, motivation, maturity and communication skills. A maximum of 22 students will be admitted to the Occupational Therapy Program each year. Admission is competitive.

◆ Prerequisites

The preprofessional phase requires a minimum of 60 semester hours of college-level prerequisites with a GPA of 3.0. The Occupational Therapy Program course requirements are outlined below.

| Admission Prerequisites | Hours |
|---------------------------------------------------------------------|-------|
| English Rhetoric and Composition | 6 |
| Sophomore English Language Literature | 3 |
| Modern Language other than English | 3 |
| Survey of Elementary Statistics | 3 |
| Visual or Performing Arts | 3 |
| Anatomy and Physiology | 8 |
| United States History | 6 |
| Political Science | 6 |
| Philosophy <i>or</i> Modern <i>or</i> Classical Language Literature | 3 |
| Anthropology <i>or</i> Sociology | 3 |
| Computer Literacy | 2 |
| Kinesiology, Health and Wellness | 2 |
| Introduction to Psychology | 3 |
| Psychology of Life Span | 3 |
| Abnormal Psychology | 3 |
| Medical Terminology | 3 |

◆ Application Procedure

Application for admission to the professional phase should be made through the Department of

Occupational Therapy Program between September 1 and February.

1. Application forms are available in the Occupational Therapy office of the Health Sciences and Human Services Building East, Room 1.130. Individuals who are selected for admission will be notified by letter in early spring.

It is the responsibility of the applicant to stay informed about possible prerequisite changes for each application period.

Prospective applicants who are not students at UTPA must apply for admission to the University before applying for the professional program. Applicants may submit requests for an unofficial evaluation to the Admissions Committee, Occupational Therapy Program. All prerequisite coursework must be completed prior to the February 1 application deadline.

◆ Accreditation

This program is accredited by the Accreditation Council of Occupational Therapy Education (ACOTE).

American Occupational Therapy Association

4720 Montgomery Lane
P. O. Box 31220
Bethesda, MD 20824-1220
Phone (301) 652-2682

◆ Professional Phase Requirements

Students accepted into the professional phase begin upper-division work the summer before the junior year. Coursework in the professional phase must be taken on a full-time basis and in sequence. The Professional Phase Curriculum is listed below:

Summer Semester

| (1st Semester in OT Program) | Hours |
|---------------------------------|-------|
| OCCT 3601 Human Gross Anatomy | 6 |
| OCCT 3301 Human Pathophysiology | 3 |

TOTAL 9

Fall Semester

| (2nd Semester in OT Program) | Hours |
|----------------------------------------------------------|-------|
| OCCT 3201 Foundations in Occupational Therapy | 2 |
| OCCT 3401 Health and Occupation | 4 |
| OCCT 3402 Human Neurosciences in Occupational Therapy | 4 |
| OCCT 3403 Biomechanical Approach in Occupational Therapy | 4 |

| | |
|--------------------------------------------------------|---|
| OCCT 3202 Assistive Technology in Occupational Therapy | 2 |
|--------------------------------------------------------|---|

TOTAL 16

Spring Semester

(3rd Semester in OT Program) Hours

| | |
|--------------------------------------------------------|---|
| OCCT 3303 Clinical Medicine | 3 |
| OCCT 3404 Design and Fabrication | 4 |
| OCCT 3505 Occupational Therapy in Physical Dysfunction | 5 |
| OCCT 3203 Practicum A | 2 |

TOTAL 14

Fall Semester

(4th Semester in OT Program) Hours

| | |
|---------------------------------------------------------------|---|
| OCCT 4100 Social Values and Ethics in Health Care | 1 |
| OCCT 4200 Therapeutic Interaction in Occupational Therapy | 2 |
| OCCT 4301 Management and Consultation in Occupational Therapy | 3 |
| OCCT 4502 Occupational Therapy in Developmental Dysfunction | 5 |
| OCCT 4204 Practicum B | 2 |

TOTAL 13

Spring Semester

(5th Semester in OT Program) Hours

| | |
|------------------------------------------------------------|---|
| OCCT 4304 Gerontologic Issues in Occupational Therapy | 3 |
| OCCT 4305 Research in Occupational Therapy | 3 |
| OCCT 4506 Occupational Therapy in Psychosocial Dysfunction | 5 |
| OCCT 4205 Practicum C | 2 |

TOTAL 13

Summer Semester

(6th Semester in the OT Program) Hours

| | |
|--------------------------------------------------------------------------------------------|----|
| OCCT 4600 & 4601 <i>or</i> OCCT 4602 & 4603 Field Studies in Occupational Therapy | 12 |
|--------------------------------------------------------------------------------------------|----|

TOTAL 12

| | |
|-------------------------------------------------------------------------------------------|--------------|
| Fall Semester (7th Semester in the OT Program) | Hours |
| OCCT 4600 & 4601 or OCCT 4602 & 4603 Field Studies in Occupational Therapy | 12 |
| TOTAL | 12 |
| TOTAL OCCUPATIONAL THERAPY HOURS | 89 |
| Spring Semester (Elective) | Hours |
| OCCT 4604 & 4605 Field Studies in Occupational Therapy | 12 |
| TOTAL | 12 |

The two extended, full-time fieldwork experiences (each three months in duration) must be completed to fulfill requirements of the program. Level II Fieldwork experience may be attempted only by students who have satisfactorily completed all corresponding academic coursework.

Fieldwork experiences are designed to permit students to demonstrate application of principles and techniques of practice under the supervision of experienced therapists. Fieldwork is accomplished at selected clinical sites. While students are given an opportunity to express their location preference for fieldwork placements, the program cannot grant assurances that any student will be placed in a setting of choice. Students should be prepared to incur expenses for transportation, food and lodging, if fieldwork placements require temporary location outside the Rio Grande Valley. The Bachelor of Science degree in Occupational Therapy will be awarded to students at the completion of all fieldwork.

Application Period/Deadline

Application Period: September 1-February 1

Application Deadline: February 1

Advancement, Promotion, Dismissal

Unconditional advancement in the Occupational Therapy Program requires that the student complete the scheduled requirements each semester or summer session with no grades lower than "C" and a minimum cumulative grade point average of 2.0.

A student who receives an "F" in any course will be

dismissed. A student who receives a "D" in any course or whose grade point average falls below 2.0 will be placed on probation. If a student on probation receives an unsatisfactory grade ("D" or "F") in any course during the probational semester or fails to earn a grade point average of at least 2.0, he or she may be suspended or dismissed.

A student who receives more than one unsatisfactory grade during any one semester will be subject to suspension or dismissal. Additionally, any student who accumulates three or more unsatisfactory grades ("D" or "F") during his/her enrollment will be dismissed. A student who has been suspended remains on continuing academic probation following his/her return. Readmission is not automatic. Further academic difficulty for such students will result in dismissal.

Advancement to fieldwork requires satisfactory ("C" or above) completion of theory and skills courses appropriate to the placement.

Additional Program Costs

In addition to tuition and required fees, students in the professional phase of the Occupational Therapy Program are required to purchase lab equipment, textbooks and manuals essential to the program.

Upon graduation, the student is certified by the program as eligible to sit for the national certification examination offered by the National Board for Certification in Occupational Therapy. This examination is required as part of the application for licensure to practice in Texas and in most other states.

The B.S. in Occupational Therapy will transition to an entry level Master's Degree program in Occupational Therapy, with the first graduate enrollment anticipated in 2004. When this occurs, the B.S. in Occupational Therapy will no longer be offered. Interested students are advised to check periodically with the Occupational Therapy Program office to stay current with the transition process. Beginning January 2007, Occupational Therapy educational programs will only be accredited at the post baccalaureate degree level.

◆ Course Descriptions

A listing of courses offered by the Occupational Therapy Program can be found on page 317.

PHYSICIAN ASSISTANT STUDIES

Frank Ambriz, *Interim Program Chair and Clinical Assistant Professor*

Health Sciences and Human Services East (HSHE)

Room 2.142

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Fax: 956/381-2438

E-mail: frankambriz@panam.edu

Full-time Faculty

Ambriz, Frank, PA-C, *Assistant Professor and Interim Chair*

Kuhn, Lisa, PA-C, *Assistant Professor and Academic Coordinator*

Negrete, Dionisio, M.D., *Medical Director*
Villarreal Jr., Elias, PA-C, *Assistant Professor and Clinical Coordinator*

Weger, Lewis, PA-C, *Assistant Professor*

Part-Time Faculty

Koo, Felix, M.D., Ph.D. *Assistant Professor*

Bowen, Earle, Ph.D., *Assistant Professor*

► General Overview

The Physician Assistant Studies Program (PASP) within the College of Health Sciences & Human Services offers a two-year professional curriculum leading to the Bachelor of Science degree in Physician Assistant Studies and a certificate of completion.

The Physician Assistant Studies Program is designed to offer the student the opportunity to develop the competencies necessary to practice as an assistant to the primary care physician as defined by the Commission on Accreditation of Allied Health Education Programs. The graduate will be prepared to assist the physician in multiple and complex tasks directly related to health and medical care; interviewing, examining, compiling and evaluating medical data; and treatment as approved by the physician; follow-up care; maintaining a continuity of communications and observations; and coordinating other health-related personnel. In emergency situations and within the defined standards, the

graduate may be called upon to carry out responsibilities specifically assigned to him or her without the immediate surveillance of a physician. The graduate physician assistant remains directly responsible to the physician-supervisor/employer, who retains complete control over the management of the patient.

► Admission Requirements

All prerequisites must be completed prior to or within the semester of the application deadline.

1. Complete the 61 credit hours of pre-professional studies with a minimum of a 2.5 GPA in three areas: overall, last 30 hours of coursework, and prerequisite sciences.
2. Submit a typewritten, two page maximum, personal goals statement.
3. Upon invitation, sit for a panel interview.
4. Provide three letters of support.

◆ Application Process

Students must apply both to The University of Texas-Pan American and to the Physician Assistant Studies Program. Application packet requests are available from the PASP program office. Applications are sent after documentation of completion of the prerequisite curriculum.

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◆ Prerequisites

Although the pre-professional course of study may be accomplished at any accredited junior college, senior college or university, it is preferred that all science courses be taken at a senior college or university. Coursework must include the following:

| Course | Hours |
|-------------------------------------------------------------------------------|-----------|
| Humanities | |
| English Composition & Rhetoric | 6 |
| English Language Literature | 3 |
| Modern Language (Spanish recommended) | 3 |
| Visual and Performing Arts (Art, Music, Dance, or Theater Appreciation) | 3 |
| Philosophy (Logic recommended) or Modern or Classical Language Literature | 3 |
| Science & Math | |
| Biology | 8 |
| Microbiology | 4 |
| College Algebra or higher | 3 |
| Social Sciences | |
| United States History | 6 |
| U.S. & Texas Government | 6 |
| Anthropology, Psychology, Sociology, Economics, or Criminal Justice | 3 |
| Computer Sciences | |
| Computer Literacy course | 2 |
| Kinesiology | |
| Activity Courses or, if waived (see catalog for details) | 2 |
| Health or Wellness | 3 |
| PASP Additional Prerequisites | |
| Human Anatomy and Physiology | 6 |
| Nutrition | 3 |
| Total Prerequisite Hours | 61 |

Note: The above prerequisites represent the minimum prerequisite courses and hours. Classes begin annually in June.

To be considered for an interview for admission, the student must also accomplish the following:

1. Insure that all application materials, including

transcripts, are postmarked by the annual deadline.

2. Complete the 61 credit hours of prerequisite coursework as described above, with a minimum GPA of 2.5 (4.0 scale) in three categories: overall GPA, prerequisite science GPA and last 30 hour GPA.

3. Provide acceptable letters of reference to the PASP.

Documentation must be provided on the application that all prerequisites are completed by the application deadline. The applicant must have his or her most recent coursework submitted on an official transcript as soon as the records become available. A complete transcript displaying that all prerequisites have been completed must be received before the student may be considered for the interview.

◆ Professional Course of Study

The professional curriculum, six semesters in length, is as follows:

| Didactic Year | Hours |
|--------------------------------------------|-----------|
| Medical Anatomy & Physiology I & II | 8 |
| Studies in the PA Profession | 1 |
| Medical Interviewing | 2 |
| Medical Psychiatry | 2 |
| Patient Education | 2 |
| Patient Evaluation | 4 |
| Pathophysiology of Disease | 4 |
| Preventive Medicine & Community Health | 3 |
| Legal & Ethical Issues in Health Care | 3 |
| Principles of Clinical Medicine | 6 |
| Clinical Laboratory Methods | 2 |
| Pharmacology I | 2 |
| Pharmacology II | 3 |
| Clinical Clerkship | 2 |
| Total Didactic Year | 44 |
| Clinical Year | |
| Medicine I & II | 8 |
| Surgery I & II | 8 |
| Pediatrics I & II | 8 |
| Obstetrics-Gynecology I & II | 8 |
| Emergency Medicine | 4 |
| Clinical Elective | 4 |
| Total Clinical Year | 40 |
| Total Professional Curriculum Hours | 84 |

Upon successful completion of academic and clinical training requirements, the student is conferred the degree of Bachelor of Science in Physician Assistant Studies and a certificate of completion for the professional curriculum.

The curriculum meets and exceeds the requirements outlined in the Essentials of an Approved Educational Program for the Assistant to the Primary Care Physician established by the American Medical Association. Graduates of the program are eligible to apply for membership in the American Academy of Physician Assistants or other nationally recognized organizations representing the physician assistant and to sit for the Physician Assistant National Certifying Examination, administered by the National Board of Medical Examiners. Successful completion of the examination leads to certification by the National Commission on Certification of Physician Assistants and is accepted by many states as proof of competency.

◆ Academic Fresh Start

An applicant who is a Texas resident may seek to enter pursuant to the "academic fresh start" statute, Texas Education Code, Paragraph 51.929. If the applicant informs the Registrar in writing of this election, the University, 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.

◆ Physician Assistant Studies

All courses in the Professional Curriculum of the PASP must be passed with a grade of "C" or better for advancement in the PASP. If a grade lower than "C" is recorded, the student must repeat the course regardless of overall grade point average and will be placed on scholastic probation status. Courses may not be repeated more than twice, and the timing of the repeated course or remedial instruction will be scheduled at the discretion of departmental faculty.

◆ Course Descriptions

A listing of courses offered by the Physician Assistant Studies Program can be found on page 319.

REHABILITATIVE SERVICES PROGRAM

Dr. Bruce Reed, Program Coordinator

Health Sciences and Human Services West (HSHW)

Room 1.266

Telephone: 956/316- 7036

Fax: 956/318-5237

E-mail: bjreed@panam.edu

Full-time Faculty

Marini, Irmo, Associate Professor,
Graduate Coordinator

Miller, Eva, Assistant Professor

Newman, Jane, Associate Professor

Reed, Bruce J., Associate Professor

Reid, Charles, Assistant Professor

Shefcik, Thomas E., Associate Professor,
Undergraduate Coordinator

► General Overview

The University of Texas-Pan American offers a Bachelor of Science degree in Rehabilitative Services. The program has two primary objectives:

- ▶ Preparing individuals to enter a wide range of beginning-level careers involving work with people who have disabilities.

- ▶ Preparing students who have the educational background and desire to continue graduate studies in rehabilitation.

Rehabilitation is defined as a comprehensive sequence of services, mutually planned by the person with a disability and the rehabilitation worker, to maximize employability, independence, integration and participation of people with disabilities in the workplace and the community. Total rehabilitation includes physical, mental, economic, familial, social, environmental, personal and vocational goals in life as part of the comprehensive process that is rehabilitation.

The rehabilitation process generally involves three identifiable stages:

1. Medical;
2. Physical or technical aid and adjustive services;

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3. Vocational, social and independent living.

In practice, it is found that improvement in the ability to work and to live independently brings about a concurrent adjustment in other areas of an individual's life. Work is a major source of self-esteem and identification.

The Rehabilitative Services 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 Rehabilitative Services Program at UT Pan American has a special emphasis on the training of bilingual and/or bicultural individuals. The need for such personnel has been demonstrated through feasibility studies conducted since 1982, both in the Rio Grande Valley and nationally.

Career Opportunities

New career opportunities in rehabilitation counseling are emerging rapidly. A student trained in Rehabilitative Services might seek employment in state vocational rehabilitation agencies, correctional facilities, community mental health programs, vocational evaluation and work adjustment facilities, independent living centers, residential facilities, alcohol and substance abuse programs, private rehabilitation

companies and private nonprofit rehabilitation programs such as Easter Seals and Goodwill Industries.

Other potential employers include the Veterans Administration, Social Security Administration, state employment services, public assistance, private personnel and placement companies, vocational advisory services and special disability organizations. In addition, many private industries employ rehabilitation specialists for their personnel and employee assistance programs.

► Admission Requirements

Students seeking admission to the Rehabilitative Services Program should apply prior to the year in which they intend to be an upper-division major. Applicants must provide the following to the Program Coordinator by April 1:

1. A completed application form. (Application forms are available in Health Sciences Building West Room 1.266.)
2. Two letters of recommendation using the program's recommendation form; at least one must be from a university/college instructor outside of this program. The recommendation form should be transmitted to the Program Coordinator directly from the reference source.
3. A current transcript from each college or university attended.

Provide all completed application material to:

Admissions Committee Rehabilitative Services Program

The University of Texas-Pan American
1201 W. University Drive
Edinburg, Texas 78541-2999

Application material will be reviewed by, and a personal interview will be scheduled with, the Admissions Committee. Admission to the Rehabilitative Services Program is competitive and based upon a rating system using the following criteria:

- A. Completion of all application material.
- B. Grade point average. A minimum 2.0 GPA is required for admission.
- C. Evaluation of letters of recommendation.
- D. Responses to the individual interview questions.

Students will be notified as to the outcome of their application prior to the end of the spring semester in which they apply.

► Degree Requirements

◆ Major in Rehabilitative Services (BS Degree)

General Education Requirements **48 hours**

Complete the General Education Requirements as shown on pages 91-93 of this catalog. The following are recommended, but not required:

Recommended General Education Courses

Spanish or Sign Language
8 hours of Anatomy and Physiology
(BIOL 2403, BIOL 2404)
PSY 1310
PHIL 1320 or PHIL 2330

Support Courses **15 hours**

HRP 2303 Medical Terminology
SOC/PSY 2301 Statistics
COMM 3316 Intercultural Communication
MANA 3361 Principles of Management
PSY 4313 Abnormal Psychology

Major Electives **3 hours**

REHS 3340 Intermediate Aspects
in Addiction Studies
REHS 4100 Independent Study
REHS 4340 Clinical Issues in Addiction Studies
REHS 4345 Special Populations
in Addiction Studies
REHS 4350 Special Topics

Rehabilitative Services

Concentration Courses **42 hours**

REHS 2301 Introduction to Rehabilitation
REHS 2311 Disability Policy and Consumerism
REHS 2321 Introduction to Addiction Studies
REHS 2331 Psychology of Disability (PSY 2331)
REHS 3303 Case Management I
REHS 3320 Family and Disability
REHS 3330 Medical Aspects of Rehabilitation
REHS 4301 Vocational Assessment
REHS 4302 Job Placement
REHS 4303 Case Management II
REHS 4330 Clinical Topics in Rehabilitation
REHS 4360 Assistive Technology
REHS 4602 Clinical Practicum

Electives **7 hours**

TOTAL **124 hours**

Addictions Studies Concentration for B.S. degree students

Students may select the concentration in addictions studies. This option requires completion of the three upper division addictions courses. Contact the program for an addictions degree plan.

◆ Minor in Rehabilitative Services

Required Courses **12 hours**

REHS 2301 Introduction to Rehabilitation
REHS 2311 Disability Policy and Consumerism
REHS 2331 Psychology and Disability
REHS 3330 Medical Aspects of Rehabilitation

Designated Electives **6 hours**

6 hours of rehabilitative services from REHS 3320, REHS 3340, REHS 4100, REHS 4330, REHS 4340, REHS 4345, REHS 4350 and REHS 4360.

◆ 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 Special Populations
in Addiction Studies

◆ Course Descriptions

A listing of courses offered by the Rehabilitative Services Program can be found on page 335.

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SOCIAL WORK

Dr. Bruce D. Friedman, *Department Chair*

Health Sciences and Human Services East (HSHE)
Room 2.128
Telephone: 956/381-3575
Fax: 956/381-3516
E-mail: socialwork@panam.edu

Dr. Penzerro, Rose Marie, *BSW Program Director*

Room 2.119 HSHE
Telephone: 956/381-2972
E-mail: rpenzerro@panam.edu

Full-time Faculty

Arizmendi, Lydia, *Assistant Professor*
Cavazos, Alonzo, *Associate Professor*
DeHoyos, Librado R. Jr., *Associate Professor*
Ecklund, Robert, *Lecturer*
Friedman, Bruce D., *Associate Professor*
Penzerro, Rose Marie, *Associate Professor*
Ramirez, Noe, *Assistant Professor*
Solis, Raul H., *Assistant Professor*
Villereal, Gary, L., *Associate Professor*

► General Overview

The Department of Social Work offers a Bachelor of Social Work (BSW) degree program accredited by the Council on Social Work Education. The BSW is a professional degree built on a liberal arts foundation with supporting course content in the social and behavioral sciences. Department courses provide basic knowledge of social welfare systems, the social work profession and the knowledge necessary for generalist social work practice, as well as preparing 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. The students who complete the BSW may apply for advanced standing in the Master's program.

The overall goal of the program is to impart knowledge, values, skills and attitudes for beginning professional social work practice with special emphasis in 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 complete SOCW 1313 Introduction to the Social Work Profession, as well as successful completion of 30 hours of University general education requirements.

Next, the student should apply for admission into the Social Work program. A 2.5 GPA is required for entry into the major. Academic advisement is required for all Social Work majors. As departmental requirements, the student must take 8 hours of Human Anatomy and Physiology and 6 hours in Spanish, 3 hours in philosophy (PHIL 2330 or 2390) and must select 3 hours from HRP 2303, REHAB 2331 or NURS 2301. Students must complete a 480-hour field internship. Eligibility for field instruction in Social Work requires an official degree plan and application for the internship on file in the Social Work Office.

Students in the Social Work Program are eligible for membership in the Student Association of Social Work (The Social Work Club) and the National Association of Social Workers — Texas Chapter, and local NASW Unit. Upon graduation, a BSW student may be licensed as a social worker (LSW) under the Texas Professional Social Work Act and passing of the Texas licensing exam.

► Degree Requirements

◆ Major in Social Work

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog except for the sections, groups or areas listed below, which must be satisfied only as shown below.

Section A. Humanities

Group 3. Language requirement is Spanish

Group 4. Other Humanities

Section B. Science and Mathematics

Group 1. Natural Science

BIOL 2403 and BIOL 2404 must be selected.

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Social Work Core Courses **39 hours**

(30 hours are advanced)
 SOCW 1313 Introduction to the
 Social Work Profession
 SOCW 2325 Statistics for Social Services
 SOCW 2314 The Social Welfare Institution
 SOCW 3321 Human Behavior and
 the Social Environment I
 SOCW 3322 Human Behavior
 and the Social Environment II
 SOCW 3314 Social Welfare Policy and Programs
 SOCW 3323 Social Work Practice I
 SOCW 4301 Social Work Practice II
 SOCW 4311 Research for the Social Services
 SOCW 4302 Social Work Practice III
 SOCW 4619 Field Block Placement
 SOCW 4353 Integrative Seminar

Support Curriculum

TOTAL **24 hours**

General Electives

TOTAL **124 hours**

Group A — Social & Economic Justice

Select 6 hours from this group:
 POLS 3363 American Hispanic Politics
 POLS 3364 U.S.-Mexico Border Relations

POLS 3365 Politics of Immigration
 SOC 4313 American Minorities
 SOC 4323 The Mexican-American People
 SOC 4352 Social Inequality

Group B — Populations at Risk

Select 6 hours from this group:
 ANTH 3375 Mexican-American Folklore
 REHS 3340 Intermediate Substance Abuse
 SOC 3324 Sociology of Health
 SOC 3393 Sociology of Aging
 SOC 4323 The Mexican American People
 SOCI 4310 Gender in Global Perspective
 SOCW 3334 Social Work Practice
 with the Aging Family
 SOCW 3335 Women's Issues in Social Work
 SOCW 4320 Social Work in Health Care
 SOCW 4321 Domestic Violence

Group C — Social Sciences

Select 9 hours from this group:
 PSY 3324 Social Psychology
 PSY 3326 Contemporary issues
 in Social Psychology
 PSY 3340 Stress Management
 Psy 3353 Physiological Psychology
 PSY 4313 Abnormal Psychology (Mandatory)
 PSY 4314 Sociology of Deviance
 SOC 3324 Sociology of Health
 SOCI 3363 Sociology of Religion
 SOCI 4325 Cultural Sociology

Group D — Social Work Electives

Select 3 hours from this group:
 SOCW 3342 Substance Abuse and the Family
 SOCW 3350 Groups in Social Work
 SOCW 3333 Special Topics in Social Work Issues
 SOCW 3345 Occupational Social Work
 SOCW 3351 School Social Work
 SOCW 4352 Substance Abuse Counseling
 in the Community

General Electives

4 hours (Select from any course that is approved
 by the University.)

TOTAL **124 hours**

◆ **Course Descriptions**

A listing of courses offered by the Department of
 Social Work can be found on page 341.

Cooperative Pharmacy Program

Dr. William J. McIntyre, *Assistant Dean*

Health Sciences and Human Services West (HSHW)

Room 2.124

Telephone: 956/318-5255

Fax: 956/384-5054

E-mail: mcintyrew@panam.edu

Full-time Faculty

Canales, Patricia L., *Assistant Professor*
McIntyre, William J., *Associate Professor*

► Introduction

The University of Texas-Pan American, in cooperation with the University of Texas at Austin College of Pharmacy, offers a six-year curriculum leading to the Doctor of Pharmacy (Pharm.D.) degree. The UTPA/UT-Austin Cooperative Pharmacy Program is designed to facilitate access to the College of Pharmacy in Austin by providing opportunities to fulfill graduation requirements at Pan American.

Students can be admitted into the University of Texas College of Pharmacy either through the UTPA Pharmacy Scholars Program or by application directly to the University of Texas at Austin after completion of the pre-pharmacy requirements.

UTPA faculty members are available to assist students with either application. The College of Pharmacy at UT-Austin offers the Doctor of Pharmacy (Pharm.D.) degree as the sole entry-level degree. It is a professional doctoral program that is designed to prepare future researchers or practitioners who can provide patient-oriented pharmaceutical care in contemporary settings including community practice, hospital environments and long-term care facilities among others.

The professional curriculum is structured around an integrated approach to drug therapy management. The Pharm.D. Program emphasizes an integrated and problem-based approach to disease management as the core of the didactic and laboratory program of study. The capstone of the Pharm.D. Program is a series of seven six-week rotations known as the internship. Each

internship course includes 40 to 50 hours per week of on-site experience supervised by practitioner faculty.

► Mission Statement

The mission of Cooperative Pharmacy Program is to enhance the knowledge, health, and well-being of the people we serve in concert with the mission, vision, and values of both cooperating campuses of The University of Texas through the recruitment, training, and retention of proficient Doctor of Pharmacy trained pharmacists. The program will strive to encourage the provision of pharmaceutical care by cultivation in our graduates' critical thinking skills and an appreciation for the need for life-long learning. The program will foster the development of clinical and transitional research and clinical pharmacy services with other health care providers in the region, state, and nationally.

► Accreditation

The American Council on Pharmaceutical Education (ACPE), 311 West Superior Street, Suite 512, Chicago, Illinois 60610, accredits the College of Pharmacy at The University of Texas at Austin. Phone: (312) 664-3575 or (800) 533-3606. Fax: (312) 664-4652. Only graduates of accredited programs are eligible for state licensure. Passing NAPLEX(r) (NORTH AMERICAN PHARMACIST LICENSURE EXAMINATION(tm) and Texas Pharmacy jurisprudence examination are required for state licensure.

► Course of Study

◆ Pre-Pharmacy years at UTPA

Years 1 & 2: Coursework in communication, mathematics, and the natural sciences.

◆ Professional Education in Pharmacy (Pharmacy School)

◆ Years 3 & 4 at College of Pharmacy UT Austin

Year 3: A board foundation in physiology, pathology, pharmaceutical sciences and pharmacy administration

Year 4: An interdisciplinary approach to disease and application to patients through case-based learning.

◆ Year 5 & 6 at UTPA and the Rio Grande Valley

Year 5: Advanced coursework in patient care

Year 6: Calendar year consisting of 7 six-week experiential rotations at pharmacy practice sites around the Rio Grande Valley.

◆ Pre-Pharmacy Course Requirements

Laboratory Sciences 36 hours

BIOL 1401 or 1487-honors

* *Each one is 4 credit hours*

BIOL 1402

or 1488 Honors

BIOL 3401 Microbiology

BIOL 3413 Genetics

CHEM 1301 General Chemistry I *and*

1101 General Chemistry Lab I

CHEM 1302 General Chemistry II *and*

1102 General Chemistry Lab II

CHEM 2302 Organic I *and*

2102 Lab

CHEM 2303 Organic II *and*

2103 Lab

PHYS 1401 General

Mathematics 7 hours

MATH 1401 Calculus

MATH 2330 Survey of Elementary Statistics *or*

MATH 3337 Applied Statistics I

English 9 hours

ENG 1301 Composition *or*

1387 Honors

ENG 1302 Rhetoric *or*

1388 Honors

ENG 2300, 2303, 2305, 2307, 2387-Honors *or*
2388-Honors

Political Sciences 6 hours

POLS 2313 *or*

2387 Honors

POLS 2314 *or*

2388 Honors

History 6 hours

HIST 2313 American Heritage I *or*

2387 Honors

HIST 2314 American Heritage II *or*

2388 Honors

Electives 6 hours

Choose from:

Social and Behavioral Sciences *or*

Arts and Humanities

Total 70 hours

Upon completion of the pre-pharmacy course requirements, Pharmacy Scholars are directly admitted to the College of Pharmacy as long as they maintain a 3.0 overall grade point and a 3.2 grade point in core science classes.

◆ Requirements for Admission to the Cooperative Pharmacy Program:

To be eligible to be a Pharmacy Scholar, high school students must complete the following high school courses:

English (4 years)

Foreign language (2 years)

Math (3 years)

Science (3 years)

Social Studies (3 years)

To be competitive, students should have a core grade point in English, math, social studies, science, and foreign language of 85% (3.4 on a scale of 4.0) Students must take either the SAT or ACT. Either a combined verbal and Math score of 1000 on SAT or a composite ACT of 20 is recommended.

• Application

Each applicant for admission must:

1. Submit transcripts for all high school and college work performed.
2. Submit a typed statement of interest.
3. Obtain three letters of recommendation. Forms will be provided by the program to the applicant.
4. Forward a finished and signed application.
5. Participate in a personal interview with members of the admissions committee.
6. Complete a written essay on the day of the interview.

Students who have completed the required pre-pharmacy coursework at UTPA may apply for admission to the College of Pharmacy. In addition to the preceding requirements for application, these students must take the Pharmacy College Admission Test (PCAT).

College of Science & Engineering

► General Overview

The College of Science and Engineering consists of the departments of Biology, Chemistry, Computer Science, Electrical Engineering, Manufacturing Engineering, Mechanical Engineering, Mathematics, and Physics and Geology.

► Academic Programs

The college offers the Bachelor of Science in Biology, Chemistry, Computer Science, Electrical Engineering, Manufacturing Engineering, Mathematics, Mechanical Engineering and Physics.

Students may minor in biology, chemistry, computer science, electrical engineering, elementary mathematics, geology, manufacturing engineering, mathematics, mechanical engineering/thermal, physical science, physics and statistics. Secondary teacher certification is available in biology, chemistry, computer information systems, earth science, mathematics, physical science and physics, and elementary teacher certification is available in biology, mathematics and physical science.

Also included in the Biology and Chemistry departments are programs for pre-dental and pre-medical students. Chemistry also has a plan of study for pre-pharmacy students.

At the graduate level, students can earn master's degrees in Biology, Computer Science, Electrical Engineering, Manufacturing Engineering, Mechanical Engineering, and Mathematics. More information on master's degrees is available in the Graduate Catalog.

The College of Science and Engineering provides several options to satisfy the University College/General Education requirements in science, mathematics and computer literacy.

New state-of-the-art facilities house the departments of Biology, Chemistry, Mechanical, Electrical, Manufacturing and Computer Science.

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Dr. John Villarreal, *Interim Dean*

Telephone: 956/381-2404

E-mail: villajr@panam.edu

Engineering Building

Room 1.294

1201 W. University Drive

Edinburg, Texas 78541-2999

Telephone: 956/381-2404

Fax: 956/381-2428

E-mail: gilpatrick@panam.edu

On the Web: www.panam.edu/colleges/cose.cfm

School of Engineering & Computer Science

► **Overview**

The School of Engineering and Computer Science is an organization within the College of Science and Engineering that groups together four of the eight academic departments in the College. The School is made up of three engineering departments: Electrical, Manufacturing, and Mechanical Engineering plus the Computer Science Department. The School is headed by an Associate Dean and Director who oversees the academic program development, the accreditation processes and the effective interactions with industry for the departments within the School. There is an external industry advisory council for computer science and also an engineering advisory council that provide advice on program development, evaluation of our placement processes for graduates and general feedback on the preparation of our students for jobs in industry or government facilities.

► **Academic Programs**

Each of the four departments in the School of Engineering and Computer Science offers the bachelor's and the master's degree in the discipline. The graduates of these four departments are among the most sought-after graduates in the university and they command the highest starting salaries for bachelor's degrees, according to a recent survey of the National Association of Colleges and Employers.

All four departments share the new Engineering Building that contains over \$7 million of teaching and research equipment. More than 63 percent of the funded research in the College of Science and Engineering resides in the School of Engineering and Computer Science. The enrollment of majors in the School is about 1,000 and makes up about half the total enrollment of the College.

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**Dr. Edwin LeMaster,
Interim Associate Dean and Director**

Tel: 956/381-3522

E-mail: elemaster@panam.edu

SCHOOL OF ENGINEERING & COMPUTER SCIENCE

Engineering Building 1.294

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Web: www.panam.edu/colleges/cose.cfm

► Premedical Honors College Program

Some students may qualify for the Premedical Honors College, a cooperative program of UT Pan American and Baylor College of Medicine. Students accepted into the program receive a tuition and fee waiver for four years of undergraduate study at UT Pan American as a Biology or Chemistry major and four years of medical education at Baylor College of Medicine, if they meet minimum requirements.

For application information, telephone the Office of Admissions and Records at 956/381-2206. For specific information about the program, contact Dr. Cindy Martinez Wedig, program coordinator, Science Building, Room 1.308, telephone 956/316-7025.

BIOLOGY

Dr. Mohammed Y.H. Farooqui, *Department Chair*

Science Building
Room 2.352

Telephone: 956/381-3537

Fax: 956/381-3657

E-mail: farooqui@panam.edu

On the web: www.panam.edu/dept/biology

Full-time Faculty

Allison, Terry C., *Professor*

Brush, Timothy, *Professor*

de la Peña, Antonio M., *Assistant Professor*

DeYoe, Hudson, *Assistant Professor*

Edwards, Robert J., *Professor*

Egle, Ardath L., *Lecturer*

Farooqui, Mohammed Y. H., *Professor*

Faulkes, Zen, *Assistant Professor*

Gunn, Scott J., *Professor*

Henry, Brad, *Associate Professor*

Judd, Frank W., *Professor*

Kuang, Anxiu, *Assistant Professor*

Lonard, Robert I., *Professor*

Materon, Luis A., *Assistant Professor*

Murray, Daniel, *Assistant Professor*

Summy, Kenneth R., *Assistant Professor*

Wedig, Cindy M., *Lecturer*

► 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 a Biology elementary or secondary teaching plan.

The department also offers study beyond the bachelor's degree leading to a Master of Science in Biology. A limited number of teaching assistantships are usually available. Interested persons should consult the Graduate Catalog or the chair of the Department of Biology.

NOTE: Students are typically expected to furnish their own transportation for laboratory sessions and field work.

► Degree Requirements

◆ Major in Biology

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

Core Courses **12 hours**

BIOL 1401 General Biology *or*
Biology 1487 (Honors)

BIOL 1402 General Biology *or*
Biology 1488 (Honors)

BIOL 4100 Biology Seminar

BIOL 3302 Biological Writing

Designated Electives **21 hours**

Select one course from each of the following areas:

• **Molecular Biology, Cellular Biology or Microbiology**

BIOL 3401 General Microbiology

BIOL 3412 Cell Biology

BIOL 3415 Introduction to Molecular Biology

BIOL 4404 General Virology

BIOL 3403 Medical Microbiology and
Immunology

• **Genetics or Biological Evolution**

BIOL 3301 Biological Evolution

BIOL 3413 Genetics

BIOL 4417 Bacterial Genetics

• **Developmental or Morphological Biology**

BIOL 2401 Vertebrate Zoology

BIOL 2402 Comparative Vertebrate Anatomy

BIOL 3405 Histology

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BIOL 3407 Comparative Embryology
 BIOL 3408 Plant Morphology
 BIOL 4418 Electron Microscopy

• **Organismal or Environmental Biology**

BIOL 2305 Environmental Biology
 BIOL 3409 Ecology
 BIOL 3414 Invertebrate Zoology
 BIOL 4303 Mammalogy
 BIOL 4304 Ichthyology
 BIOL 4309 Herpetology
 BIOL 4314 Plant Taxonomy
 BIOL 4402 Marine Zoology
 BIOL 4403 Introduction to Remote
 Sensing Technology

BIOL 4407 Animal Parasitology
 BIOL 4408 Plant Pathology
 BIOL 4410 Marine Botany
 BIOL 4412 Ornithology
 BIOL 4415 Entomology
 BIOL 4416 Environmental Toxicology
 BIOL 4419 Aquatic Entomology

• **Physiology**

BIOL 2403 Anatomy and Physiology
 BIOL 2404 Anatomy and Physiology
 BIOL 3411 Mammalian Physiology
 BIOL 4305 Plant Physiology
 BIOL 4311 Ecological Physiology

Select additional Biology courses to complete 30 hours in Biology, of which 15 must be advanced.

Other Requirements

Where appropriate, the following requirements may also be used to satisfy General Education requirements.

• **Mathematics**

Complete 6 hours from the following:

MATH 1340 College Algebra
 MATH 1356 Trigonometry
 MATH 1357 Precalculus Mathematics
 MATH 1401 Calculus I
 MATH 1402 Calculus II
 MATH 2330 Survey of Elementary Statistics

• **Chemistry**

Complete all of the following:

CHEM 1301
 1101 General Chemistry I,
 General Chemistry Lab I
 CHEM 1302
 1102 General Chemistry II,
 General Chemistry Lab II
 CHEM 2302
 2102 Organic Chemistry I,
 Organic Chemistry Lab I

• **Statistics**

Complete 3 hours:

MATH 2330 Survey of Elementary Statistics *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, Pre-Medical and Pre-Optometry majors.

◆ **Pre-Dental/Pre-Medical/Pre-Optometry**

Biology majors who are pre-dental, pre-medical or pre-optometry students should include BIOL 2402 in their major and should minor in chemistry. Additional course requirements include: CHEM 1101/1301, CHEM 1102/1302, CHEM 2102, CHEM 2302, CHEM 2103, CHEM 2303, PHYS 1401 and 1402. MATH 1401 is suggested for pre-medical and pre-optometry students. (Within the State of Texas MATH 1401 is only required for admission to UT-Houston Medical School and UH College of Optometry.) Additional courses suggested include: CHEM 3103, CHEM 1303 and PSY 1310. Pre-medical, pre-dental and pre-optometry students who

have completed a minimum of 90 hours and the general education requirements at UT Pan American may apply for the BS 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 the major and minor in biology or chemistry.

◆ Major in Biology with Teacher Certification

Core Courses 12 hours

BIOL 1401 General Biology *or*
 BIOL 1487 Honors Biology
 BIOL 1402 General Biology *or*
 BIOL 1488 Honors Biology
 BIOL 4100 Biology Seminar
 BIOL 3302 Biological Writing

Designated Electives 27 hours

Select at least three hours from each of the

following areas:

• Molecular Biology, Cellular Biology or Microbiology

BIOL 3401 General Microbiology
 BIOL 3412 Cell Biology
 BIOL 3415 Introduction to Molecular Biology
 BIOL 4404 General Virology
 BIOL 4418 Electron Microscopy
 BIOL 3403 Medical Microbiology
 and Immunology

• Genetics or Biological Evolution

BIOL 3301 Biological Evolution
 BIOL 3413 Genetics
 BIOL 4417 Bacterial Genetics

• Vertebrate Morphology or Physiology

BIOL 2401 Vertebrate Zoology
 BIOL 2402 Comparative Vertebrate Anatomy
 BIOL 2403 Anatomy and Physiology
 BIOL 2404 Anatomy and Physiology
 BIOL 3411 Mammalian Physiology
 BIOL 4311 Ecological Physiology

• Environmental Biology

BIOL 2305 Environmental Biology
 BIOL 3409 Ecology
 BIOL 4402 Marine Zoology
 BIOL 4410 Marine Botany
 BIOL 4416 Environmental Toxicology

• Advanced Zoology

BIOL 3405 Histology
 BIOL 3407 Comparative Embryology
 BIOL 3414 Invertebrate Zoology
 BIOL 4303 Mammalogy

BIOL 4304 Ichthyology
 BIOL 4407 Animal Parasitology
 BIOL 4309 Herpetology
 BIOL 4412 Ornithology
 BIOL 4415 Entomology
 BIOL 4419 Aquatic Entomology

• Advanced Botany

BIOL 3403 Medical Microbiology
 and Immunology
 BIOL 3408 Plant Morphology
 BIOL 4305 Plant Physiology
 BIOL 3410 A Survey of the Plant Kingdom
 BIOL 4314 Plant Taxonomy
 BIOL 4408 Plant Pathology

Select additional biology courses to complete 36 hours in biology, of which 21 must be advanced.

Minimum GPA Requirements

Graduates who seek certification as elementary or secondary teachers must have a minimum GPA of 2.5 in both the major and minor fields.

◆ Minor in Biology

18 hours in Biology, of which six hours must be advanced.

Program Requirements

A Biology major seeking teacher certification must:

1. Maintain a minimum of a 2.5 GPA in both major and minor fields.
2. Complete a Workshop in preparation for certification.
3. Pass a Department Benchmark exam.

• Teacher Certification with Biology Minor

Elementary Plan II

Required Courses

BIOL 1401 General Biology
 BIOL 1402 General Biology
 BIOL 3409 Ecology

Designated Electives

Select one course from the following:

BIOL 2401 Vertebrate Zoology
 BIOL 2402 Comparative Vertebrate Anatomy
 BIOL 2305 Environmental Biology
 BIOL 3301 Biological Evolution

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Select one course from the following:

- BIOL 3408 Plant Morphology
- BIOL 3414 Invertebrate Zoology
- BIOL 4314 Plant Taxonomy

Select additional advanced hours to complete 9 hours at the advanced level.

TOTAL **20 hours**

Secondary Plan II

Required Courses

- BIOL 1401 General Biology
- BIOL 1402 General Biology
- BIOL 3409 Ecology

Designated Electives

Select one course from the following:

- BIOL 2401 Vertebrate Zoology
- BIOL 2402 Comparative Vertebrate Anatomy
- BIOL 2403 Anatomy and Physiology
- BIOL 2305 Environmental Biology
- BIOL 3301 Biological Evolution

Select one course from the following:

- BIOL 3408 Plant Morphology
- BIOL 3414 Invertebrate Zoology
- BIOL 4314 Plant Taxonomy

Select additional advanced hours to complete 12 hours at the advanced level.

TOTAL **24 hours**

◆ Course Descriptions

A listing of courses offered by the Department of Biology can be found on page 242.

CHEMISTRY

Dr. Phillip DeLassus, *Department Chair*

Science Building

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On the web: www.panam.edu/dept/chemistry

Full-time Faculty

- Ahmad, Hassan, *Associate Professor, Biochemistry*
- Bhat, Narayan, *Associate Professor, Organic Chemistry*
- Castrillon, Jose P., *Associate Professor, Organic Chemistry*
- DeLassus, Phillip, *Professor, Physical Chemistry*
- Diaz, Sylvia, *Lecturer*
- Gregorius, Roberto, *Associate Professor, Polymer Chemistry*
- Ibrahim, Amin, *Assistant Professor, Analytical Chemistry*
- Mondal, Jalal U., *Professor, Inorganic Chemistry*
- Villarreal, John R., *Professor, Physical Chemistry, and Interim Dean, College of Science and Engineering*
- Whelan, Thomas, *Assistant Professor, Chemical Oceanography*

► General Overview

The Department of Chemistry offers a major leading to a Bachelor of Science degree, certified by the American Chemical Society, and a minor in chemistry. The department also offers programs of study for pre-medical and pre-dental studies, each leading to a Bachelor of Science degree in chemistry. In addition, the department offers plans of study for pre-pharmacy and teacher certification in chemistry.

The Department of Chemistry offers undergraduate research projects to highly motivated chemistry majors interested in conducting individual research under the supervision of a faculty member. Such projects offer students the opportunity to obtain knowledge of research methods in a specialized area and proceed to graduate school.

All new students who intend to major in chemistry should schedule an appointment with a faculty advisor within the department. Students are encouraged to consult with their faculty advisors regarding the degree requirements needed to satisfy their professional goals.

► Mission

The Department of Chemistry is committed to the mission of providing quality education in the process of preparing students for graduate work or careers in chemistry and the biomedical sciences. The department strives to fulfill its mission by offering a program that leads to an undergraduate major or minor in chemistry. In addition, the department prepares students for admission to schools of dentistry, pharmacy and medicine. The department also offers a program that leads to teacher certification. The chemical curriculum is designed to introduce students to the fundamental fields of chemistry and provides opportunities for chemical research.

The department is committed to engaging in its activities of teaching, research and professional service in an environment of academic freedom.

The Chemistry Department at The University of Texas-Pan American provides an excellent program in helping the University fulfill its responsibility of providing high quality academic programs for the people of this region and the State of Texas.

► Degree Requirements

◆ Major in Chemistry

General Education Requirements: 48 hours

Complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Natural Science and Mathematics

| | |
|-----------|--------------------------|
| CHEM 1302 | General Chemistry II |
| CHEM 1102 | General Chemistry Lab II |
| MATH 1340 | College Algebra |

Major Course Requirements 32 hours

• Chemistry Core Courses

| | |
|-----------|--------------------------|
| CHEM 2301 | Analytical Chemistry |
| CHEM 2101 | Analytical Chemistry Lab |
| CHEM 2302 | Organic Chemistry I |
| CHEM 2102 | Organic Chemistry Lab I |
| CHEM 2303 | Organic Chemistry II |
| CHEM 2103 | Organic Chemistry Lab II |
| CHEM 3301 | Inorganic Chemistry |
| CHEM 3202 | Inorganic Chemistry Lab |

| | |
|-----------|---------------------------|
| CHEM 3103 | Biochemistry Lab |
| CHEM 3303 | Biochemistry |
| CHEM 3304 | Physical Chemistry I |
| CHEM 3104 | Physical Chemistry Lab I |
| CHEM 3305 | Physical Chemistry II |
| CHEM 3105 | Physical Chemistry Lab II |
| CHEM 4101 | Chemistry Seminar |
| CHEM 4201 | Chemistry Problems I |
| CHEM 4304 | Instrumental Analysis |
| CHEM 4104 | Instrumental Analysis Lab |

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 3303 | Biochemistry |
| CHEM 3103 | Biochemistry Lab |
| CHEM 3306 | Polymer Science and Engineering |
| CHEM 4202 | Chemistry Problems II |
| CHEM 4301 | Advanced Inorganic Chemistry |
| CHEM 4302 | Advanced Biochemistry |
| CHEM 4303 | Advanced Organic Chemistry |
| CHEM 4378 | Special Topics in Chemistry |

Other Course Requirements 16 hours

| | |
|-----------|-----------------|
| MATH 1401 | Calculus I |
| MATH 1402 | Calculus II |
| PHYS 1401 | General Physics |
| PHYS 1402 | General Physics |

TOTAL 124 hours

Students are required to select electives that will bring their total number of advanced hours to 45 and the total number of hours for the completion of their degree to 124.

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 Pre-Medical

Chemistry majors in pre-dental and pre-medical programs are required to complete 18 hours of biology, of which 6 hours must be advanced. These hours must include BIOL 2402.

• Teacher Certification in Chemistry

There are two options available to students who desire teaching certification with chemistry as the teaching field.

Secondary Option I: 37-38 hours in chemistry, of which 25-26 hours must be advanced.

Secondary Option II: 28 hours in chemistry, of which 16 hours must be advanced.

Students seeking teacher certification must have a minimum GPA of 2.25 in both the major and minor fields. They should consult with the Teacher Certification Office regarding other specific requirements.

• 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) 6 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, 3 hours of social science electives, and 6 hours of cultural heritage electives, while UT Austin requires 6 hours of electives. Texas Southern University requires 1 hour of medical terminology and a 3-hour elective in philosophy, music, sociology or psychology. Texas Tech University offers only the Pharm.D. degree. The prerequisites include COMM 1303, ECO 1301, PHYS 1402 and a minimum of 15 hours of electives in the humanities and social sciences. See the faculty advisor in the Department of Chemistry for more information, since curricula at other institutions may vary.

◆ Minor in Chemistry

18 hours of chemistry, of which six must be advanced.

◆ Course Descriptions

A listing of courses offered by the Department of Chemistry can be found on page 246.

COMPUTER SCIENCE

Dr. Richard H. Fowler, Interim Department Chair

Engineering Building

Room 3.295

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E-mail: fowler@panam.edu

Full-time Faculty

Abraham, John P., *Associate Professor*

Brazier, Pearl W., *Associate Professor*

Chen, Zhixiang, *Associate Professor*

Dietrich, Gustavo D., *Lecturer*

Egle, David L., *Lecturer*

Fowler, Richard H., *Professor*

Lawrence-Fowler, Wendy A., *Professor*

Paul, Jesudah, *Lecturer*

► 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.

► Mission/Goals/Objectives

◆ Mission

The department offers four degrees: Bachelor's of Science in Computer Science (BSCS) as a broad-field major, Bachelor's of Science with a major in Computer

Science (BS) with a required minor field, Master's of Science with a major in Computer Science (MS), and Master's of Science in Information Technology (MSIT). The department offers courses leading to teacher certification in computer information systems, service courses to fulfill University College / General Education 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.

The undergraduate curricula in computer science are based on the Association for Computing Machinery and the Institute of Electrical and Electronics Engineers Computer Society recommendations for curricula and reflect the goals of a liberal arts education. The graduate curricula provide advanced and specialized study in the areas of computer science and information technology. The curricula in computer science provide the student with marketable expertise to enter the computing and information technology fields, the skills and education required to adapt to the rapid change characteristic of the fields, and the foundation to pursue graduate study in computer science and information technology.

► Departmental Admission Requirements

Students must have computer experience equivalent to CSCI 1300 and must have completed or be concurrently enrolled in MATH 1340 before enrolling in CSCI 1380, Computer Science I.

Other Information

The department has access to the well-equipped University computing facilities, which include IBM-compatible and Macintosh computers and Sun Workstations with networked access to the University VAX cluster and the Internet. A lab of Pentium-based PCs donated by the Intel Corporation is dedicated specifically to the Computer Science program. Advanced courses and research efforts are supported by departmental Unix workstations.

► Degree Requirements

The Department of Computer Science offers a 128-hour Bachelor of Science in Computer Science (BSCS) degree as a broad-field major, a 39-hour major (minor required) leading to a Bachelor of Science (BS) degree and an 18-hour minor in computer science. The Computer Science major can be completed to fulfill an Option I plan for secondary teacher certification. The department also offers a 24-hour Option II plan for secondary teacher certification.

For the 39-hour major in computer science, students are required to complete a minor and are encouraged to select the minor from a supporting discipline. Typical minors include mathematics, business administration, computer information systems and electrical engineering; however, a variety of other minors can support the degree. Students should seek advisement from the computer science faculty in their freshman year to plan a timely completion of their degree. An official degree plan must be filed with the department upon completion of 60 hours of University courses.

◆ Bachelor of Science in Computer Science (BSCS) as a Broad-Field Major

Students pursuing the Bachelor of Science in Computer Science (BSCS) as a broad-field major must complete the University General Education requirements and a computer science core. No minor is required for this degree.

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog. PHIL 2390 (Professional Ethics) must be taken to meet the philosophy requirement. Courses to meet the natural science requirement must be taken from biology, chemistry or physics.

NOTE: The computer literacy and mathematics requirements (the remaining 5 hours of the general education requirements) are met by required courses listed below.

Computer Science Core Courses **27 hours**

| | |
|-----------|---------------------------------------------|
| CSCI 1380 | Computer Science I |
| CSCI 1381 | Foundations of Computer Science |
| CSCI 2333 | Computer Organization and Assembly Language |

| | |
|-----------|---------------------------------------|
| 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 |
| CSCI 4390 | Senior Project |

Designated Computer Science Electives 21 hours

Select 3 hours from the following:

CSCI 3326, CSCI 3327 or CSCI 2320

Select 3 hours from the following: Any advanced

CSCI course or CSCI 2325, CIS 2308, CIS 2310

Select 6 hours from the following:

CSCI 4333, CSCI 4335 or CSCI 4345

Select 9 hours of advanced CSCI courses.

NOTE: A maximum of 3 hours from CSCI 3300 and CSCI 3390 can be used to fulfill CSCI elective requirements. Only CSCI 2320 and CSCI 4341 may be repeated for credit when topics change.

Mathematics/Engineering 21 hours

MATH 1401 Calculus I

MATH 1402 Calculus II

MATH 2345 Elementary Linear Algebra

MATH 3373 Discrete Structures

ELEE 2130 Digital Systems Laboratory

ELEE 2330 Digital Systems Engineering I

Select 3 hours from the following:

MATH 3337 Applied Statistics I

MATH 4339 Probability and Statistics

ELEE 3340 Probability and Statistics for Electrical Engineers

Communications/English 6 hours

ENG 3333 Technical Report Writing

Select 3 hours from the following:

COMM 1303 Presentational Speaking

COMM 1313 Fundamentals of Speech Communication

Lab Science 4 hours

Any four-hour laboratory science course from biology, chemistry or physics. (This is in addition to the general education requirement but need not be in the same subject as the eight hours taken for that requirement.)

Other Electives 6-12 hours

Students must select electives to complete a total of 51 advanced hours in their degree. Depending on the

selection of electives, this will require from 6 to 12 hours of advanced electives.

Other Requirements

Students must complete all Computer Science Core Courses with a grade of "C" or better.

Total 136 hours

◆ Bachelor of Science in Computer Science (BSCS) as a Broad-Field Major with Computer Engineering Emphasis

Although UT Pan American does not offer a computer engineering degree, through a careful choice of electives from advanced computer science, mathematics, electrical engineering and physics, a student can design a degree that can be marketed as Computer Science with a Computer Engineering emphasis.

Students pursuing the Bachelor of Science in Computer Science (BSCS) as a broad-field major with Computer Engineering emphasis should complete the University General Education Requirements and the Computer Science with Computer Engineering Emphasis core.

General Education Requirements 48 hours

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog. PHIL 2390 (Professional Ethics) must be taken to meet the philosophy requirement. Courses to meet the natural science requirement must be from biology, chemistry or physics.

NOTE: The computer literacy and mathematics requirements (the remaining 5 hours of the general education requirements) are met by required courses listed below.

Computer Science Core Courses 27 hours

CSCI 1380 Computer Science I

CSCI 1381 Foundations of Computer Science

CSCI 2333 Computer Organization and Assembly/Language

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

CSCI 4390 Senior Project

Designated Electives**21 hours**

CSCI 4334 Operating Systems
 CSCI 4335 Computer Architecture
 CSCI 4345 Computer Networks

Select 3 hours from the following:

CSCI 2320, CSCI 3326, CSCI 3327

Select 3 hours from the following:

CSCI 2325, CIS 2308, CIS 2310 or any advanced CSCI course.

Select 6 hours from any advanced CSCI courses.

NOTE: A maximum of 3 hours from CSCI 3300 and CSCI 3390 can be used to fulfill CSCI elective requirements. Only CSCI 4341 may be repeated for credit when topics change.

Mathematics/Engineering**21 hours**

MATH 1401 Calculus I
 MATH 1402 Calculus II
 MATH 2345 Elementary Linear Algebra
 MATH 3373 Discrete Structures
 ELEE 2130 Digital Systems Laboratory
 ELEE 2330 Digital Systems Engineering I
 ELEE 3306 Electronic Systems

Select either of the following:

ELEE 2420 Network Theory I

ELEE 3305 Electrical Systems

Select 3 hours from the following:

MATH 3337 Applied Statistics I

MATH 4339 Probability and Statistics

ELEE 3340 Probability and Statistics for
 Electrical Engineers

Select 6-9 hours of ELEE courses with departmental approval to total 18 hours (9 advanced) ELEE courses.

Communications/English**6 hours**

ENG 3333 Technical Report Writing

Select 3 hours from the following:

COMM 1303 Presentational Speaking

COMM 1313 Fundamentals of Speech
 Communication

Lab Science**4 hours**

Any 4-hour laboratory science course from biology, chemistry, or physics. (This is in addition to the general education requirement but need not be in the same subject as the 8 hours taken for that requirement.)

Other Electives**6-12 hours**

Students must select electives to complete a total

of 51 advanced hours in their degree. Depending on the selection of electives, this will require from 0 to 36 hours of advanced electives.

Other Requirements

Students must complete all Computer Science Core Courses with a grade of "C" or better.

TOTAL**136 hours**

◆ **Bachelor of Science (BS) with Major in Computer Science (minor required)**

Students wishing to major in computer science must complete the University General Education requirements, a computer science core and the requirements for a related minor.

It is recommended that students wishing to pursue graduate study in computer science complete Sequence 1 under the mathematics requirements.

General Education Requirements**48 hours**

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog. For the computer literacy requirement, CSCI 1380 or higher CSCI course may be recommended by the department for students with prior computer experience. Mathematics requirement can be satisfied by requirements listed below.

Computer Science Core Courses**24 hours**

CSCI 1380 Computer Science I
 CSCI 1381 Foundations of Computer Science
 CSCI 2333 Computer Organization and
 Assembly Language
 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

Designated Electives in Computer Science**15 hours**

Select 3 hours from the following:

CSCI 3326, CSCI 3327, CSCI 2320.

Select 6 hours from the following:

CSCI 4333, CSCI 4335 or CSCI 4345.

Select 9 hours of advanced CSCI courses.

A maximum of 3 hours from CSCI 3300 and CSCI 3390 can be used to fulfill CSCI elective requirements.

Mathematics 9-11 hours

MATH 3373 Discrete Structures

Select one sequence from the following:

Sequence 1 (recommended).

Complete at least two of the following courses:

MATH 1357 Pre-calculus Mathematics

MATH 1401 Calculus I

MATH 1402 Calculus II

Sequence 2.

Student may substitute for Sequence 1 with advisor approval:

MATH 1321 Business Algebra

MATH 1322 Business Calculus

Communications/English 6 hours

ENG 3333 Technical Report Writing

Select 3 hours from the following:

COMM 1303 Presentational Speaking

COMM 1313 Fundamentals of Speech Communication

Minor 18-24 hours

Students must complete all requirements for a related minor.

Other Electives 12-15 hours

Students must select electives to complete a total of 51 advanced hours in their degree. Depending on the number of advanced courses for the minor, the selection of elective hours in the major and the selection of other course requirements, this will require from 12 to 15 hours of advanced electives.

Other Requirements

Students must complete all Computer Science Core Courses with a grade of "C" or better.

TOTAL 127-138 hours

◆ Bachelor of Science (BS) with Major in Computer Science (minor required)

• Teacher Certification in Computer Information Systems (Option I)

Teacher certification in Computer Information Systems is required for teachers of Computer Science I and II in the secondary schools. This certification also allows teachers to teach the computer literacy course in the junior high school. To graduate with completion of the 36-hour Option I plan for secondary certification

in Computer Information Systems, students must be admitted to the Teacher Education Program and complete all the requirements for the Computer Science BS degree (minor required):

The Option I plan does not require a second teaching field; however, students are encouraged to seek a second field. The Option II certification in Computer Information Systems program is described in the section below under minors.

General Education Requirements 48 hours

Complete the requirements shown in the General Education Requirements section shown on pages 91-93 of this catalog. For the computer literacy requirement, CSCI 1380 or higher CSCI course may be recommended by the department for students with prior computer experience.

NOTE: The computer literacy and mathematics requirements (the remaining 5 hours of the general education requirements) are met by required courses listed below.

Computer Science Core Courses 24 hours

CSCI 1380 Computer Science I

CSCI 1381 Foundation of Computer Science

CSCI 2333 Computer Organization and Assembly Language

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

Designated Electives in Computer Science 15 hours

Select 3 hours from the following:

CSCI 1300, CSCI 2320, CSCI 2330,

CSCI 3326, CSCI 3327

Select 6 hours from the following:

CSCI 4333, CSCI 4335 or CSCI 4345

Select 9 hours of advanced CSCI courses.

A maximum of 3 hours from CSCI 3300 and CSCI 3390 can be used to fulfill CSCI elective requirements.

Professional Education Courses 21 hours

Admission to Teacher Education is required prior to enrolling in the following courses:

EDCI 4301 Foundations of Education

EDCI 4302 Educational Psychology

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EDCI 4307 Secondary Curriculum: Internship I
 EDCI 4308 Secondary Curriculum: Internship II
 EDCI 4641 Secondary Internship II
 READ 4351 Developmental Reading
 in Secondary Schools

Communication/English 6 hours

ENG 3333 Technical Report Writing
Select 3 hours from the following:
 COMM 1303 Presentational Speaking
 COMM 1313 Fundamentals of Speech
 Communication

Mathematics 9 hours

MATH 3373 Discrete Structures
Select one sequence from the following:
Sequence 1 (recommended).
Complete at least two of the following courses:
 MATH 1357 Pre-calculus Mathematics
 MATH 1401 Calculus I
 MATH 1402 Calculus II
Sequence 2.
*Student may substitute for Sequence 1
 with advisor approval:*
 MATH 1321 Business Algebra
 MATH 1322 Business Calculus

Minor 18 hours

Students must complete all requirements for a related minor. A minimum of 6 hours must be advanced hours.

TOTAL 136 hours

◆ **Minor in Computer Science with Teacher Certification in Computer Information Systems (Option II):**

Core Courses 12 hours

CSCI 1380 Computer Science I
 CSCI 1381 Foundations of Computer Science
 CSCI 2380 Computer Science II
 CSCI 3333 Algorithms and Data Structures

Designated Electives 12 hours

Select one of CSCI 2320, CSCI 3326 or CSCI 3327.
 Select 9 advanced hours in Computer Science (up to 6 hours from CIS 3335, CIS 3338 and CIS 4308 may be used to partially satisfy this requirement).

TOTAL 24 hours

◆ **Minor in Computer Science**

Core Courses 9-12 hours

CSCI 1380 Computer Science I
 CSCI 1381 Foundations of Computer Science
 CSCI 2380 Computer Science II

Designated Electives 6 hours

Select one of CSCI 2320, CSCI 3326 or CSCI 3327
 Select 6 hours of advanced Computer Science courses.

TOTAL 18 hours

◆ **Course Descriptions**

A listing of courses offered by the Department of Computer Science can be found on page 265.

MANUFACTURING ENGINEERING

Dr. Subhash C. Bose, *Department Chair*

Engineering Building
Room 3.224
Telephone: 956/381-2606
Fax: 956/381-3527
E-mail: scbose@panam.edu

Full-time Faculty

Bose, Subhash C., *Professor*
Gonzalez, Miguel, *Associate Professor*
Nambiar, Rajiv V., *Associate Professor*
Timmer, Douglas H., *Assistant 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 BS 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.

► Mission

The University of Texas-Pan American Manufacturing Engineering Department 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

Basic Engineering

36 hours

All students must complete a Basic Engineering requirement composed of the following courses:

| | |
|-----------|----------------------------------------------|
| CHEM 1301 | |
| /1101 | General Chemistry I* |
| CHEM 1302 | |
| /1102 | General Chemistry II* |
| CSCI 1380 | Computer Science I* or |
| CSCI 2325 | Survey of Elementary Scientific Programming* |
| ENG 1301 | Composition* |
| ENG 1302 | Rhetoric* |
| MATH 1401 | Calculus I* |
| MATH 1402 | Calculus II |
| PHYS 2301 | Intermediate Physics |
| PHYS 2101 | Intermediate Physics Laboratory |
| ENGR 1101 | Introduction to Engineering |
| MECE 1221 | Engineering Graphics |
| MECE 2440 | Engineering Materials |

**This course also satisfies the University's General Education requirements (see below).*

A student must complete each of the above courses with a grade of "C" (or higher) before enrollment in subsequent engineering courses will be recommended. 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 attained include ENG 1301 and ENG 1302, CHEM 1301/1101 and CHEM 1302/1102, HIST 2313 and modern language. Additional information about advanced standing credit is given on pages 64-66 of this catalog.

General Education Requirements

29 hours

(19 hours of the General Education Requirements are satisfied as part of the Basic Engineering Requirements.) All students must complete the University's General Education requirements shown on

pages 91-93 of this catalog EXCEPT for the sections, groups and areas noted below which must be satisfied as shown.

| | |
|----------------------------------------------------------|-----------------|
| Humanities & Visual and Performing Arts | 12 hours |
| Must select Art, Music, Dance or Theatre Appreciation | |
| | 3 hours |
| PHIL 2390 | 3 hours |
| English Literature | 3 hours |
| Modern Language | 3 hours |
| Science and Mathematics | |
| Computer Literacy | |
| Social Sciences | |
| U.S. History | 6 hours |
| Political Science | 6 hours |
| Economics | 3 hours |
| Kinesiology | 2 hours |

TOTAL **29 hours**

**These courses satisfy the Basic Engineering requirements on page 202.*

| | |
|-----------------------------------------------------------------|-------------------------|
| Other Non-Engineering Courses | 11 hours |
| <i>The following non-engineering courses are also required:</i> | |
| MATH 2401 | Calculus III |
| MATH 3349 | Differential Equations |
| PHYS 2302 | Intermediate Physics |
| PHYS 2102 | Intermediate Laboratory |

◆ Manufacturing Engineering Major

Manufacturing Engineering is a new engineering specialty; UT Pan American offers the only accredited bachelor's degree in Manufacturing Engineering in Texas. The curriculum includes elements of traditional mechanical, electrical and industrial engineering curricula. Graduates with this specialization will find many opportunities for employment in all types of manufacturing facilities.

The total course requirements for Bachelor of Science in Manufacturing Engineering consist of the following:

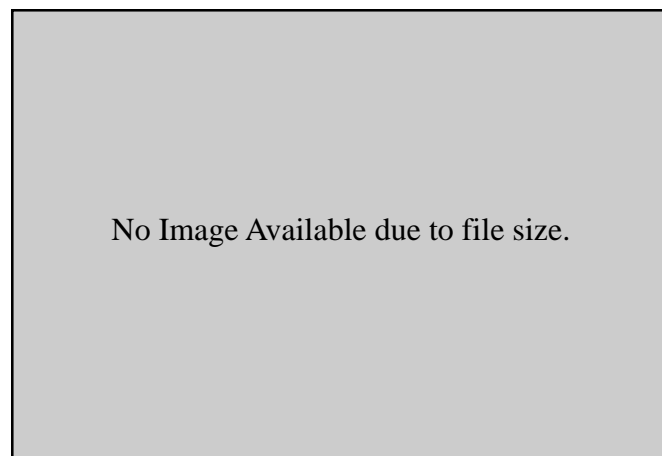
| | |
|---------------------------------------------|------------------|
| Manufacturing Engineering Program | 137 hours |
| Basic Engineering | 36 hours |
| Other General Education Requirements | 29 hours |
| Other Non-Engineering Requirements | 11 hours |

Major Requirements **61 hours**
The actual number of courses taken at UT Pan American will depend on a student's high school preparation and on the number of courses for which advanced standing credit is received. The major requirements for this degree are shown below.

| | |
|---------------------------|----------------------------------------|
| Major Requirements | 61 hours |
| Core Courses | 55 hours |
| MANE 2101 | Manufacturing Technology Laboratory |
| MECE 2303 | Statics |
| MECE 2304 | Dynamics |
| ENGR 4461 | Senior Design Project I |
| ENGR 4462 | Senior Design Project II |
| ELEE 3305 | Electrical Systems |
| ELEE 3306 | Electronic Systems |
| MANE 3364 | Manufacturing Processes and |
| MANE 3164 | Manufacturing Processes Lab |
| MANE 3332 | Engineering Statistics |
| MANE 2340 | Fundamentals of Industrial Engineering |
| MANE 3300 | Computer-Aided Design |
| MANE 3302 | Computer-Aided Manufacturing |
| MANE 4311 | Quality Control |
| MANE 4321 | Automation Systems |
| MANE 4331 | Manufacturing Planning and Control |
| MECE 3321 | Mechanics of Solids |
| MECE 2335 | Thermodynamics I |
| MECE 3315 | Fluid Mechanics |

Technical Electives **6 hours**
Select with faculty advisor's approval.

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, 6 of which must be at the advanced level. The minor requires certain support courses as prerequisites. Check with the department for more information.

Required Courses 11 hours

| | |
|-----------|------------------------------------|
| MANE 3332 | Engineering Statistics |
| MANE 3364 | Manufacturing Processes <i>and</i> |
| MANE 3164 | Manufacturing Processes Lab |
| MECE 2440 | Engineering Materials |

Designated Electives 7 hours

Select 7 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 Manufacturing Engineering Department can be found under their respective headings in the Course Descriptions section beginning on page 201.

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ELECTRICAL ENGINEERING

Foltz, Heinrich D., *Department Chair*

Engineering Building
Room 3.214
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Full-Time Faculty

Aounallah, Abdallah, *Lecturer*
Ben Ghalia, Mounir, *Assistant Professor*
Foltz, Heinrich D., *Associate Professor*
Kumar, Sanjeev, *Assistant Professor*
LeMaster, Edwin W., *Professor*
Ojha, Anand K., *Assistant Professor*
Son, Jaesok, *Assistant Professor*
Zarnani, Hamid, *Assistant 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 Electrical Engineering Department 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.

► Mission

The Electrical Engineering Department 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 life long 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

General Education Requirements **48 hours**

Students must meet the University General Education requirements; however, some of the requirements must be fulfilled with particular courses:

English, Literature
same as University Requirements
Language Other Than English
same as University Requirements
The Arts
same as University Requirements
Philosophy or Modern or Classical
Language Literature
PHIL 2390
Natural Science
PHYS 2301/2101, 2302/2102
Mathematics
MATH 1401*
Computer Literacy
CSCI 1380*
Kinesiology
same as University Requirement
History
same as University Requirement

Political Science
same as University Requirement
Other Social Science
ECON 2301

***Note:** 3 hours of MATH 1401 and 2 hours of CSCI 1380 are used to satisfy the General Education requirements, the remainder fall under "Other Course Requirements."

Electrical Engineering Required Course **47 hours**

ELEE 2319 Numerical Computation and Data Visualization
ELEE 2330 Digital Systems Engineering I
ELEE 2130 Digital Systems Laboratory
ELEE 2420 Electrical Circuits I
ELEE 2321 Electrical Circuits II
ELEE 3301 Electronics I
ELEE 3225 Electrical Engineering Lab I
ELEE 3435 Microprocessor Systems
ELEE 3315 Electromagnetics
ELEE 3340 Probability & Statistics for EE
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 Devices

Electrical Engineering Elective Courses **9 hours**

Students choose 9 hours of additional ELEE courses with faculty advisor approval. The following courses have been approved as electives:

ELEE 3370 Power Electronics
ELEE 4360 Microwave Systems Engineering
ELEE 4365 Digital Signal Processing
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 and ELEE 3306 are not acceptable as technical electives.

Senior Design **8 hours**

Students must complete a major capstone design project, to be completed over a two-semester period.

ENGR 4461 Senior Design I
 ENGR 4462 Senior Design II

Other Course Requirements* 25 hours

ENGR 1101 Introductions to Engineering
 MATH 1402 Calculus II
 MATH 2346 Math for Electrical Engineers
 MATH 2401 Calculus III
 MATH 3349 Differential Equations
 CHEM 1301 Chemistry I
 CHEM 1101 Chemistry I Lab
 MECE 2405 Engineering Mechanics

*Includes 1 hour each from MATH 1401 and CSCI 1380

Total 137 hours

A grade of "C" or higher is required in any course that is a prerequisite (directly or indirectly) for an ELEE course. Electrical Engineering courses in which a grade of "C" or higher has been earned cannot be repeated in an attempt to earn a higher grade.

Mechanical Engineering

Dr. Hashim Mahdi, Department Chair

Engineering Building
 Room 3.222A
 Telephone: (956) 381-2381
 Fax: (956) 381-3527
 E-mail: mahdi@panam.edu

Full-Time Faculty

Crown, Stephen, *Associate Professor*
 Freeman, Robert, *Associate Professor*
 Fuentes, Arturo, *Assistant Professor*
 Jones, Robert, *Associate Professor*
 Lozano, Karen, *Assistant Professor*
 Mahdi, Hashim, *Associate Professor*
 Qubbaj, Ala, *Assistant Professor*
 Smith, Monty, *Assistant Professor*

► Mission

The Mechanical Engineering Department 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 life-long learning by keeping abreast of and participating in the latest developments in their chosen areas of expertise and interacting across disciplines. The opportunity for the student success in the undergraduate programs will be enhanced by liberal access to the computational facilities and laboratories.

► General Overview

The School of Engineering and Computer Science offers an Accredited Bachelor's 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.

The total course requirements for the Bachelor's of Science in Mechanical Engineering consist of the following:

General Education Requirements **50 hours****Humanities** **18 hours**

| | |
|-----------|------------------------------------------|
| ART | Visual and Performing Arts |
| ENG 1301 | Composition |
| ENG 1302 | Rhetoric |
| ENG 23XX | Sophomore Literature Foreign Language |
| PHIL 2390 | Professional Ethics |

Science & Math **12 hours**

| | |
|-----------|----------------------|
| MATH 1401 | Calculus I |
| PHYS 2101 | Intermediate Lab |
| PHYS 2102 | Intermediate Lab |
| PHYS 2301 | Intermediate Physics |
| PHYS 2302 | Intermediate Physics |

Computer Literacy **3 hours**

| | |
|-----------|------------------------------------------------|
| CSCI 1380 | Computer Science I <i>or</i> |
| CSCI 2325 | Survey of Elementary Scientific Programming |

Kinesiology **2 hours**

| | |
|----------|--------------------------|
| KIN X2XX | Kinesiology and Wellness |
|----------|--------------------------|

Social Science **15 hours**

| | |
|-----------|--------------------------------------|
| ECON 2301 | Principles of Economics |
| HIST 2313 | American Heritage I |
| HIST 2314 | American Heritage II |
| POLS 2313 | U.S. & Texas Government and Politics |
| POLS 2314 | U.S. & Texas Government and Politics |

Other Non-Engineering Courses

| | |
|-----------|--------------------------------|
| CHEM 1101 | General Chemistry Lab I |
| CHEM 1301 | General Chemistry I |
| CHEM 1302 | General Chemistry II <i>or</i> |
| PHYS 33XX | Upper-Level Physics |
| MATH 1402 | Calculus II |
| MATH 2401 | Calculus III |
| MATH 3349 | Differential Equations |

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 1101 | ECON 2301 |
| HIST 2313 | PHYS 2302 |
| CHEM 1301 | ENG 1301 |
| HIST 2314 | POLS 2313 |
| CHEM 1302 | ENG 1302 |

| | |
|-----------|-----------|
| MATH 1401 | POLS 2314 |
| CSCI 1380 | ENG 23XX |
| PHYS 2301 | |

Engineering Courses **59 hours**

| | |
|-----------|----------------------------------------|
| ENGR 1101 | Introduction to Engineering |
| ENGR 4161 | Senior Design Project I |
| ENGR 4261 | Senior Design I Lab |
| ENGR 4362 | Senior Design Project II |
| ELEE 3305 | Electrical Systems |
| ELEE 3306 | Electronic Systems |
| MANE 3164 | Manufacturing Processes Lab |
| MANE 3364 | Manufacturing Processes |
| MECE 1221 | Engineering Graphics |
| MECE 2303 | Statics |
| MECE 2304 | Dynamics |
| MECE 2335 | Thermodynamics |
| MECE 2440 | Engineering Materials |
| MECE 3115 | Fluid Mechanics |
| MECE 3160 | Heat Transfer Lab |
| MECE 3315 | Fluid Mechanics |
| MECE 3320 | Measurement and Instrumentation |
| MECE 3321 | Mechanics of Solids |
| MECE 3336 | Thermodynamics II |
| MECE 3350 | Mechanical Engineering Analysis |
| MECE 3360 | Heat Transfer |
| MECE 3380 | Kinematics and Dynamics of Machines |
| MECE 4101 | Fundamentals of Engineering |
| MECE 4350 | Machine Elements |

Technical Electives (choose nine hours) **9 hours**

| | |
|-----------|-------------------------------------------------------|
| MECE 3304 | Introduction to Dynamics Systems |
| MECE 3385 | Mechanical Vibrations |
| MECE 4321 | Intermediate Mechanics of Solids |
| MECE 4322 | Introduction to the Practice of Finite Elements |
| MECE 4323 | Introduction to Combustion Engineering |
| MECE 4324 | Energy Systems, Analysis and Design |
| MECE 4326 | Classical Control, Theory and Applications |
| MECE 4327 | Intermediate Materials Engineering |
| MECE 4328 | Introduction to Plastic Engineering |
| MECE 4329 | Meteorology of Engineering Alloys |
| MECE 4345 | Composite Material Design |
| MECE 4365 | Heating, Air Conditioning and Refrigeration Design |

TOTAL **136 hours**

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• **Upper Division Admission Policy**

Students will enter the university as ENGR majors. Upon completion of the lower courses listed with a grade of C or better, they may apply for admission to the major. Only admitted major students may take upper division MECE courses.

Lower division list

| | |
|-----------|-----------------------------|
| CHEM 1301 | |
| /1101 | General Chemistry I |
| ENGR 1101 | Introduction to Engineering |
| MATH 1401 | Calculus I |
| MECE 1221 | Engineering Graphics |
| MECE 2303 | Statics |
| MECE 2440 | Engineering Materials |

◆ **Minor in Mechanical Engineering/Thermal**

This minor provides a background in thermal sciences, fluids and heat transfusion. 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 6 must be at the advanced level. The minor requires certain support courses as prerequisites as shown below.

Required Courses

| | |
|-----------|----------------------------|
| MECE 2335 | Thermodynamics I |
| MECE 2440 | 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 1401 | General Physics |

MATHEMATICS

**Lokenath, Debnath, Professor
and Department Chair**

Mathematics and General Classrooms Building
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Fax: 956/384-5091
E-mail: debnathl@panam.edu

Full-time Faculty

Alvarado, Frances E. M., *Lecturer*
Alvarado, Jose F., *Lecturer*
Arnold, Sharon T., *Lecturer*
Asghorian, Leleah, *Lecturer*
Bernard, John E., *Professor*
Chance, Joseph E., *Professor*
Debnath, Lokenath, *Professor
and Department Chair*
Ebaseh-Onofa, Benjamin O., *Associate Professor*
Fatehi, Mohammed, *Lecturer*
Gilpin, Jerry M., *Lecturer*
Gonzalez, Roberto, *Lecturer*
Heller, William, *Associate Professor*
Hinthorn, Richard W., *Lecturer*
Jabs, David, *Lecturer*
Knobel, Roger A., Jr., *Associate Professor*
Martinez, Guillermo, *Lecturer*
Olsen, Janet, *Lecturer*
Paredes, Miguel, *Professor*
Pontius, Paul, *Assistant Professor*
Poorkarimi, Hushang, *Professor*
Ramirez, Olga M., *Professor*
Rivera, Gustavo, *Lecturer*
Sifuentez, Cristela, *Lecturer*
Skow, Donald P., *Senior Lecturer*
Taylor, Monty B., *Professor*
Torres, J. Rene, *Lecturer*
Uddin, Muhammed, *Lecturer*
Villalobos, Maria C., *Assistant Professor*
Von Kuster, Lee, *Visiting Professor*
Watkins, William, *Professor*
Wiener, Bella, *Senior Lecturer*

► **Degree Programs**

The Department of Mathematics offers a major in Mathematics leading to a Bachelor of Science degree,

minors in mathematics and statistics. It also offers a Bachelor of Interdisciplinary Studies in Mathematics for certification in grades 4-8. In addition, it offers courses for students seeking a second teaching field for teacher certification in mathematics.

The mathematics major requires coursework in mathematics, computer science and statistics. In addition, mathematics majors have options available for elective coursework both in and out of the department. Mathematics majors should work closely with their departmental advisor in order to choose these electives.

All students majoring in mathematics must complete the General Education requirements, as well as requirements for a minor. Students are encouraged to consult with their academic advisors regarding their minor. In addition, students must complete the mathematics requirements with a 2.25 GPA and with at least 21 advanced-level mathematics hours excluding the following courses: MATH 3310, MATH 3312, MATH 3313, MATH 3315, MATH 3316 and MATH 3319.

Depending on their professional goals, students must complete MATH 3349 or the combination of MATH 3304 and MATH 3311 to meet their mathematics requirements. Students considering graduate work or work in industry are encouraged to take MATH 3349, MATH 3337 and MATH 3338.

Students may seek teacher certification in addition to completing the degree requirements. They should consult with the Teacher Certification Office regarding specific requirements. For example, a student seeking teacher certification (Option I*) must complete MATH 3304 and MATH 3311 in addition to Professional Education requirements: EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, READ 4351 and EDCI 4641 (which may partially fulfill advanced elective requirements).

*Option I as outlined in UT Pan American Secondary Education Program; see the College of Education Advisement Center for details.

► Degree Requirements

◆ Major in Mathematics

General Education Requirements **48 hours**

Complete the requirements shown in the General Education Requirements section on pages 91-93 of this catalog EXCEPT for the sections, groups or areas listed below, which must be satisfied only as shown.

Section B. Science and Mathematics

Group 1. Natural Science

At least one course in Physics is required.

Group 2. Mathematics

MATH 1401 is the recommended beginning course.

Section C. Computer Literacy

A course from the Department of Computer Science above CSCI 1300 is required.

Major Course Requirements **36 hours**

Core Courses **24 hours**

| | |
|-----------|--------------------------------------------|
| MATH 1401 | Calculus I |
| MATH 1402 | Calculus II |
| MATH 2401 | Calculus III |
| MATH 2345 | Elementary Linear Algebra |
| MATH 4339 | Probability and Statistics |
| MATH 4351 | Modern Algebra (grade of "C" or better) |
| MATH 4357 | Real Analysis (grade of "C" or better) |

Designated Electives **3-6 hours**

| | |
|-----------|---------------------------------------------------------------|
| MATH 3349 | Differential Equations <i>or</i> |
| MATH 3304 | Geometry <i>and</i> |
| MATH 3311 | The Organizational Structures and Processes of Mathematics |

Other Electives **6-9 hours**

Other advanced mathematics electives (6 or 9 hours, depending on which designated electives are taken).

These electives cannot include MATH 3310, MATH 3312, MATH 3313, MATH 3315, MATH 3316 or MATH 3319.

• Bachelor of Interdisciplinary Studies — Mathematics Teacher Certification for Grades 4-8

General Education/Core Requirements **48 hours**

Complete the requirements shown in the General Education/Core Requirements section of this catalog.

NOTE: By choosing appropriately, a student may use some General Education/Core Requirement courses to fulfill other requirements listed below.

Interdisciplinary Major Area **54 hours**

| | |
|-----------------------------|--------------------------------|
| Math 36 hours | |
| EMAT 2306 | Foundations of Mathematics I |
| EMAT 2307 | Foundations of Mathematics II |
| MMAT 3309 | Foundations of Mathematics III |

| | |
|-----------|----------------------------------------|
| MMAT 3312 | Measurement and Geometry |
| MMAT 3313 | Algebraic Structures |
| MMAT 3315 | Probability and Statistics |
| MMAT 3317 | Basics of Discrete Mathematics |
| MMAT 3318 | Basics of Number Theory |
| MMAT 3319 | Mathematical Structures & Processes |
| MMAT 3320 | Basics of Mathematical Modeling |
| MMAT 3321 | Mathematical Problem Solving |
| MMAT 4322 | Capstone Research Project |

Grade of "C" or better required in all EMAT and MMAT courses. A GPA of 2.25 or greater also required for these courses.

Language Arts 6 hours

| | |
|-----------|--------------------------------------------------|
| READ 3325 | Reading in the Content Areas |
| READ 3326 | Cognitive Development & Reading Comprehension |

Science (beyond the Core) 6 hours

PHYS, ASTR, GEOL, PSCI (At least one course in physics with a lab is required if not in core.)

Computer/Technology 3 hours

| | |
|-----------|------------------------------------------|
| CSCI 1380 | Computer Science or |
| MMAT 3316 | Mathematics in a Computer Environment |

Arts & Humanities 3 hours

| | |
|-----------|-------------------------------------------|
| PHIL 1320 | Introduction to Logic (if not in Core) |
|-----------|-------------------------------------------|

Academic MINOR 18 hours

Any Discipline (9 hrs advanced)

Education Component 18 hours

| | |
|-----------|-------------------------------------------------|
| EDMS 3305 | Exceptional Learner |
| EDMS 3353 | Adolescent Development |
| EDMS 3354 | Curriculum Development & Assessment |
| EDMS 3355 | Instructional Methods & Classroom Management |
| EDMS 4657 | Internship |

TOTAL 138 hours

Students seeking teacher certification should consult with the Teacher Certification Office regarding mathematics courses required for certification.

Other Requirements

- ▶ Completion of the major course requirements with a 2.25 or better.
- ▶ Completion of at least 21 hours of advanced-level mathematics excluding the following courses: MATH 3310, MATH 3312, MATH 3313, MATH 3315, MATH 3316 and MATH 3319.
- ▶ Completion of requirements for a minor.

TOTAL 124 hours

◆ Minor in Mathematics

Students may seek a minor in mathematics with or without teacher certification. A minor in mathematics for those students not seeking certification requires 24 semester hours of mathematics, of which 9 hours must be advanced, including MATH 1401, MATH 1402, MATH 2401, MATH 2345 and 9 approved advanced semester hours of mathematics.

Students seeking teacher certification under *Option II** must complete an additional 3 approved advanced semester hours of mathematics, and must include both MATH 3304 and MATH 3311 (for a total of 27 hours). For additional certification requirements, a student should consult with the Teacher Certification Program Office.

In either case, MATH 3310, MATH 3312, MATH 3313, MATH 3315, MATH 3316 and MATH 3319 are not appropriate or approved for the advanced-level mathematics requirements in this minor.

**Option II as outlined in UT Pan American Secondary Education Programs. See the College of Education Advisement Center for details.*

• Mathematics Specialization for the Bachelor in Interdisciplinary Studies

A specialization in elementary mathematics requires 27 hours in mathematics of which 18 must be advanced.

Required Courses 27 hours

| | |
|-----------|-----------------------------------------------------|
| MATH 1340 | College Algebra |
| MATH 2306 | Foundations of Mathematics I |
| MATH 2307 | Foundations of Mathematics II |
| MATH 3310 | Foundations of Mathematical Problem Solving |
| MATH 3312 | Foundations of Measurement and Informal Geometry |
| MATH 3313 | Foundations of Algebraic Structures |

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| | |
|-----------|---------------------------------------------------------------------|
| MATH 3315 | Foundations of Probability and Statistics |
| MATH 3316 | Foundations of Mathematics in a Computer Environment |
| MATH 3319 | Mathematical Foundations of Structures and Processes of Mathematics |

◆ Minor in Statistics

The minor in statistics is available for students in mathematics and science as well as for students in other disciplines needing statistics as a tool. The minor requires 18 approved hours of mathematics, statistics or computer science, of which 9 must be advanced. These 18 hours cannot be used simultaneously to fulfill requirements in the student's major. MATH 3310, MATH 3312, MATH 3313, MATH 3315, MATH 3316 and MATH 3319 are not appropriate or approved for the advanced-level math requirements in this minor.

The degree plan must include the following courses:

| | |
|--------------------|---------------------------------|
| MATH/ STAT 2330 | Survey of Elementary Statistics |
| MATH/ STAT 3337 | Applied Statistics I |
| MATH 3338 | Applied Statistics II |
| MATH 4339 | Probability and Statistics |
| STAT 4336 | Sampling |

◆ Course Descriptions

A listing of courses offered by the Department of Mathematics can be found on page 304.

PHYSICS & GEOLOGY

Dr. Mohammed I. Bhatti, *Interim Department Chair*

Physical Science Building

Room 123

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Full-time Faculty

Alexander, Steven, *Assistant Professor*
 Bhatti, Muhammad Idrees, *Associate Professor*
 Carey, John S., *Lecturer*
 Giuoco, Samuel E., *Assistant Professor*
 Hannan, Mohammad A., *Assistant Professor*
 Leeson, William R., *Lecturer*
 Mahmood, Akhtar H., *Assistant Professor*
 Mazariegos, Ruben A., *Associate Professor*

General Overview

The Department of Physics and Geology offers a Bachelor of Science degree with a major in physics and minors in geology, physical science and physics. The geology minor is compatible with major fields of study in physics, chemistry, education, biology, engineering and business.

There are secondary and elementary teaching fields in physics, physical science and earth science. The department also offers courses in subject areas of astronomy and geography.

Students are expected to furnish their own transportation and expenses on field trips.

► Degree Requirements

◆ Major in Physics

General Education Requirements **48 hours**
 Complete the General Education requirements as shown on pages 91-93 of this catalog.

Core Courses **28 hours**
 PHYS 1401 General Physics

| | |
|-----------|---------------------------|
| PHYS 1402 | General Physics |
| PHYS 2301 | Intermediate Physics |
| PHYS 2101 | Intermediate Laboratory |
| PHYS 2302 | Intermediate Physics |
| PHYS 2102 | Intermediate Laboratory |
| PHYS 3301 | Electromagnetic Theory I |
| PHYS 3302 | Electromagnetic Theory II |
| PHYS 3303 | Heat and Thermodynamics |
| PHYS 3304 | Optics |
| PHYS 3305 | Mechanics |

Designated Electives **8 hours**

| | |
|-----------------------------|-------------------------------------|
| PHYS 3402 | Modern Physics <i>or</i> |
| PHYS 4301 | Topics in Modern Physics <i>and</i> |
| PHYS 3101 | Junior Laboratory |
| 4 advanced hours of Physics | |

◆ **Minor in Physics**

Required Courses

| | |
|-----------|---------------------------------|
| PHYS 1401 | General Physics (or equivalent) |
| PHYS 1402 | General Physics (or equivalent) |
| PHYS 2301 | Intermediate Physics |
| PHYS 2101 | Intermediate Laboratory |
| PHYS 2302 | Intermediate Physics |
| PHYS 2102 | Intermediate Laboratory |

Designated Electives

| | |
|----------------------------------------|-------------------------------------|
| PHYS 3402 | Modern Physics <i>or</i> |
| PHYS 4301 | Topics in Modern Physics <i>and</i> |
| PHYS 3101 | Junior Laboratory |
| 2 additional advanced hours of physics | |

TOTAL **22 hours**

◆ **Minor in Earth Science**

19 hours in Geology

Required Courses

| | |
|-----------|-------------------------|
| GEOL 1401 | Physical Geology |
| GEOL 1402 | Historical Geology |
| GEOG 2313 | Physical Geography |
| GEOL 2401 | Geomorphology <i>or</i> |
| GEOL 2402 | Structural Geology |
| GEOL 3403 | Oceanography |

◆ **Minor in Geographic Information Systems**

19 hours in Geology and Geographic Information Systems — Track I

| | |
|-----------|------------------------------------------------|
| GEOL 1401 | Physical Geology |
| GEOL 1402 | Historical Geology |
| GEOL 3408 | Introduction to Geographic Information Systems |

| | |
|-----------|------------------------------------------------|
| GEOL 4408 | Applications of Geographic Information Systems |
| GEOL 4309 | Problems in Geology and Geophysics |

◆ **Minor in GIS-Track II**

| | | |
|-----------|------------------------------------------------------|-------|
| GEOL 1401 | Physical Geology <i>or</i> | |
| PHSC 1422 | Physical Science | 4 hrs |
| GEOG 2313 | Principles of Physical Geography | 3 hrs |
| GEOL 3408 | Introduction to Geographic Information Systems (GIS) | 4 hrs |
| GEOL 4408 | Applications of Geographic Information Systems | 4 hrs |
| GEOL 4309 | Undergraduate Research | 3 hrs |

TOTAL **18 hrs.**

◆ **Minor in Physical Science (Option I)**

22 hours in the physical sciences, of which 6 hours must be advanced.

Required Courses

| | |
|-----------|----------------------|
| CHEM 1301 | |
| /1101 | General Chemistry I |
| CHEM 1302 | |
| /1102 | General Chemistry II |
| PHYS 1401 | General Physics |
| PHYS 1402 | General Physics |

Designated Electives

6 advanced hours in any combination of advanced courses in chemistry, geology, physical science and physics.

TOTAL **22 hours**

◆ **Minor in Physical Science (Option II)**

24 hours in the physical sciences, of which 8 hours must be advanced.

Required Courses

| | |
|-----------|------------------------------|
| PSCI 1421 | Physical Science |
| PSCI 1422 | Physical Science |
| GEOL 1401 | Physical Geology <i>or</i> |
| GEOL 1403 | Environmental Geoscience I |
| GEOL 1402 | Historical Geology <i>or</i> |
| GEOL 2401 | Geomorphology |
| GEOL 3403 | Oceanography <i>or</i> |
| GEOL 3401 | Mineralogy |
| PSCI 4311 | Topics in Physical Science |
| PHYS 3101 | Junior Laboratory |

TOTAL **24 hours**

◆ Teacher Certification with a Minor in Physics

▶ Secondary Option II

Required Courses

| | |
|-----------|-------------------------------|
| PHYS 1401 | General Physics or equivalent |
| PHYS 1402 | General Physics or equivalent |
| PHYS 2301 | Intermediate Physics |
| PHYS 2101 | Intermediate Laboratory |
| PHYS 2302 | Intermediate Physics |
| PHYS 2102 | Intermediate Laboratory |

Designated Electives

12 advanced hours in physics.

TOTAL **28 hours**

◆ Teacher Certification in Physical Science

▶ Elementary Option III

24 hours in physical sciences, of which 8 must be advanced.

Required Courses

| | |
|-----------|----------------------|
| CHEM 1301 | |
| /1101 | General Chemistry I |
| CHEM 1302 | |
| /1102 | General Chemistry II |
| PHYS 1401 | General Physics |
| PHYS 1402 | General Physics |

Designated Electives

8 advanced hours in any combination of advanced courses in chemistry, physical science and physics.

TOTAL **24 hours**

▶ Secondary Option II

24 hours in the physical sciences, of which 8 must be advanced.

Required Courses

| | |
|-----------|----------------------|
| CHEM 1301 | |
| /1101 | General Chemistry I |
| CHEM 1302 | |
| /1102 | General Chemistry II |
| PHYS 1401 | General Physics |
| PHYS 1402 | General Physics |

Designated Electives

8 advanced hours in any combination of advanced courses in chemistry and physics.

TOTAL **24 hours**

◆ Teacher Certification in Earth Science

▶ Secondary Option I

36 hours in geology, of which 20 hours must be advanced.

Required Courses

| | |
|----------|----------------------------|
| GEO 1401 | Physical Geology |
| GEO 1402 | Historical Geology |
| GEO 2401 | Geomorphology |
| GEO 2402 | Structural Geology |
| GEO 3401 | Mineralogy |
| GEO 3403 | Oceanography |
| GEO 3404 | Stratigraphy-Sedimentation |
| GEO 3405 | Petrology |

Designated Electives

4 additional advanced hours of geology.

TOTAL **36 hours**

▶ Secondary Option II

24 hours in geology, of which 12 hours must be advanced.

Required Courses

| | |
|----------|-------------------------|
| GEO 1401 | Physical Geology |
| GEO 1402 | Historical Geology |
| GEO 2401 | Geomorphology <i>or</i> |
| GEO 2402 | Structural Geology |
| GEO 3401 | Mineralogy |
| GEO 3403 | Oceanography |
| GEO 3405 | Petrology |

TOTAL **24 hours**

Students in either certification option should take, as recommended electives, 4 hours of astronomy and 3 hours of physical geography in preparation for the ExCET test.

◆ Course Descriptions

A listing of courses offered by the Department of Physics and Geology can be found on pages 289 (GEO) and 325 (PHYS).

College of Social & Behavioral Sciences

► General Overview

The College of Social and Behavioral Sciences is composed of five departments: Criminal Justice, Military Science, Political Science, Psychology and Anthropology, and Sociology.

The goals of the College of Social and Behavioral Sciences are based upon the importance for students that a liberal arts education has as the foundation for all university studies. Consequently, the college endorses the "Goals of a Liberal Arts Education" found on page 90 of this catalog.

► Academic Programs

The college offers the Bachelor of Arts in Anthropology, General Studies, Political Science and Psychology; the Bachelor of Science in Psychology, Sociology and Criminal Justice; and the Bachelor of Applied Arts and Sciences. Students may minor in anthropology, criminal justice, military science, political science, psychology or sociology.

At the graduate level, students can earn master's degrees in Criminal Justice, Psychology, Public Administration, Sociology, and Interdisciplinary Studies with a concentration in Anthropology. More information on master's degrees is available in the Graduate Catalog.

The College of Social and Behavioral Sciences helps provide students with a liberal arts education by offering instruction in several areas. Students also can satisfy the General Education requirements for physical activity and social science courses (see pages 91-93) by taking classes within the college.

Additionally, the Department of Military Science provides Army Reserve Officers' Training Corps training that can lead to commissioning in the Army, Army Reserve or National Guard.

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Dr. Homer Garcia, Dean

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Dr. Shelia Pozorski, Assistant Dean

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Interdisciplinary Programs

► Bachelor of Applied Arts & Sciences (BAAS)

◆ Program Description

The Bachelor of Applied Arts and Sciences (BAAS) is specifically designed to allow individuals who hold an Associate of Applied Arts and Sciences degree in a technical or an occupational area from an accredited institution to earn a bachelor's degree. The BAAS degree will be awarded to individuals who successfully complete (a) the liberal arts-based general education requirement (48 hours), (b) one of the professional development sequences (36 hours), and (c) the occupational or vocational coursework (48-51 hours) completed in meeting the requirements for an Associate of Applied Arts and Sciences degree.

◆ Program Requirements

Academic Foundations 48 hours

Complete the General Education requirements as shown on pages 91-93 of this catalog.

College Core 9 hours

6 hours in 2 separate social science disciplines outside the general education core.

3 additional hours in either the same language or 3 hours of communication.

◆ BAAS Professional Development

► Sequences

Before entering the BAAS Program, the student is assigned a degree counselor within the Office of the Dean. With the advice of the degree counselor, the student selects one of the Professional Development Sequences, and a degree plan is placed on record.

Sequences are as follows:

¶ Applied Business Technologies 36 hours

Students selecting this sequence will receive preparation in areas that can be applied to different occupations.

Required Courses 18 hours

ECO 3358 Labor or Economics (*or*)
ECO 3360 Managerial Economics (*or*)

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ECO 4362 Global Entrepreneurship
MANA 3335 Communication, Policy and Strategy
POLS 3323 Introduction to Public Administration

POLS 3324 Government Organizations and Administrative Theory *or*

POLS 3343 International Politics *or*
POLS 3314 State and Local Government

SOC 3324 Sociology of Health *or*
SOC 4352 Social Inequality

Any advanced elective in business, political science, or Sociology

Designated Electives 6 hours

Complete one of the following groups:

Group A

MANA 3361 Principles of Management and Organizational Behavior
MANA 3362 Human Resource Management

Group B

MARK 3371 Principles of Marketing
MARK 3373 Industrial Marketing

Group C

FINA 3381 Money and Banking
FINA 3386 Financial Institutions and Markets

Electives 12 hours

Select 12 hours of advanced non-business courses in conference with academic advisor.

• **Liberal Arts** **36 hours**

Students selecting this sequence may be prepared for careers in hotel/motel management or state/federal services in which skills in the use of modern languages are required.

Required Courses **18-24 hours**

Language Other than English

Complete at least 12 advanced hours in the same language or 18 advanced hours in two languages (i.e., 6 and 12).

Other

MANA 3361 Principles of Management and Organizational Behavior
MANA 3362 Human Resource Management

Designated Electives **12 hours**

Business

3 hours of advanced electives in business

Political Science

Select at least 6 hours from the following:

POLS 3314 American State and Local Government
POLS 3323 Introduction to Public Administration
POLS 3324 Government Organization and Administrative Theory
POLS 4310 Comparative Public Administration
POLS 4320 American Constitutional Law: Federalism
POLS 4360 American Executive Process
POLS 4365 American Administrative Process
POLS 4367 American Judicial Process

History

Select 3 hours from the following:

HIST 4313 20th Century America, 1917 to the Present
HIST 4325 The American Southwest after 1821
HIST 4353 History of Mexican Culture
HIST 4354 Contemporary Mexico
HIST 4363 U.S.-Latin American Relations
HIST 4374 The Caribbean and Central America

Free Electives **6-0 hours**

6-0 advanced hours, to be selected in conference with academic advisor (hours required depend upon amount of language taken above).

Occupational or Vocational Emphasis **48-51 hours**
Occupational or vocational work completed as a part of BAAS degree.

Other Requirements

At least 51 hours must be at the advanced level.

TOTAL **124 hours**

► **Baccalaureate in General Studies (BGS)**

◆ **Program Description**

Students taking the Baccalaureate in General Studies will complete a minimum of 124 hours with at least 51 hours of advanced coursework. Students will develop their academic programs in consultation with the Dean of the College of Social and Behavioral Sciences and the academic advisors for the department or disciplines involved.

◆ **Program Requirements**

General Education requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog

College Core **9 hours**

6 hours in two separate social science disciplines outside the general education core.

3 additional hours in either the same language or three hours of communication.

Required Courses: **54 hours**

Discipline #1 18 hours (minimum of 12 adv. hours)

Discipline #2 18 hours (minimum of 12 adv. hours)

Discipline #3 18 hours (minimum of 12 adv. hours)

The 3 disciplines 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 **22 hours**

Including a minimum of 15 advanced hours.

Other Requirements

A minimum of 51 hours of advanced coursework.

TOTAL **124 hours**

CRIMINAL JUSTICE

Dr. Daniel K. Dearth, *Department Chair*

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Full-time Faculty

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Cohen, Nigel, *Assistant Professor*

Dantzker, Mark, *Associate Professor*

Dearth, Daniel K., *Associate Professor*

Ethridge, Philip, *Associate Professor*

Resendiz, Rosalva, *Assistant Professor*

► General Overview

The Department of Criminal Justice undergraduate programs are directed at preparing students for professional service in criminal justice agencies and entrance into graduate programs and professional schools. A major focus is to equip students to become change-agent professionals in a variety of criminal justice institutions in law enforcement, courts, and corrections as well as related public and private entities that focus on preservation and protection of democratic principles and social order.

The Department of Criminal Justice helps fulfill and support the mission and goals of the University, the Division of Academic Affairs, and the College of Social and Behavioral Sciences. The department is committed to helping provide all students at the University, regardless of their major, with effective instruction grounded in the liberal arts-consistent with the University "Goals of a Liberal Arts Education" found on pages 91-93 of this catalog.

► Degree Requirements

◆ Major in Criminal Justice (BSCJ Degree)

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 General Education Requirements 48 hours

Complete the General Education requirements as shown on pages 91-93 of this catalog.

NOTE: Under Humanities and Visual and Performing Arts, the Criminal Justice Department strongly advises students to take Philosophy 2390 — Professional Ethics.

College Core and Social Science Support Courses 27 Hours

Modern Language 3 hours
Same language as taken to complete General Education Requirements

Introductory Statistics 3 Hours

Select one course only:

SOC 2301 Statistics for Behavioral Sciences

PSY 2401 Basic Statistics for Psychologists

QUIMT 2341 Elementary Business/Economic Statistics

MATH 2330 Survey of Elementary Statistics

Political Science 6 hours

Select one course only from each group:

Group One:

POLS 4321 American Constitutional Law:
Civil Liberties

POLS 4367 American Judicial Processes

Group Two:

POLS 3314 American State and
Local Government

POLS 3316 American Public Policy

POLS 3323 Introduction to Public
Administration

POLS 3324 Government Organization and
Administrative Theory

POLS 3325 Public Personnel Administration

POLS 4384 Seminar in Local Government

Psychology 3 hours

Advanced elective

Sociology 6 hours

Advanced electives

Free Electives 6 hours

Advanced electives

Criminal Justice Core **21 hours**

| | |
|-----------|------------------------------------|
| CRIJ 1301 | Introduction to Criminal Justice |
| 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 4399 | Criminal Justice System-Capstone |

Criminal Justice Electives Groups **15 hours**

You must have 12-15 advanced hours, depending on the selected minor, from the following:

| | |
|-----------|-------------------------------------------|
| CRIJ 1307 | Crime in America |
| CRIJ 1310 | Fundamentals of Criminal Law |
| CRIJ 1313 | Juvenile Justice System |
| CRIJ 2314 | Criminal Investigation |
| CRIJ 2323 | Legal Aspects of Law Enforcement |
| CRIJ 2326 | Police-Community Relations |
| CRIJ 2335 | Legal Aspects of Corrections |
| CRIJ 3341 | Probation and Parole |
| CRIJ 3344 | Techniques of Interviewing |
| CRIJ 3345 | Correctional Administration |
| CRIJ 4311 | Police Organization and Administration |
| CRIJ 4312 | Principles of Law Enforcement Supervision |
| CRIJ 4313 | Current Issues in Law Enforcement |
| CRIJ 4341 | Correctional Casework and Counseling |
| CRIJ 4343 | Current Issues in Corrections |
| CRIJ 4361 | Comparative Criminal Justice Systems |
| CRIJ 4362 | Special Topics in Criminal Justice |
| CRIJ 4363 | Independent Studies in Criminal Justice |
| CRIJ 4464 | Field Internship Experience |

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 6 advanced hours but allow additional advanced hours to be selected from electives. We suggest that students take a minimum of 9 advanced hours in their chosen minor. Criminal Justice majors cannot minor in criminal justice.

• Summary of Degree Requirements

| | |
|------------------------|----------|
| General Education Core | 48 hours |
|------------------------|----------|

| | |
|-------------------------------------------------|-----------|
| College Core and Social Science Support Courses | 27 hours |
| Criminal Justice | 36 hours |
| Minor | 18 hours |
| Total | 129 hours |
| Advanced | 51 hours |

◆ Minor in Criminal Justice

The criminal justice minor requires the completion of 18 semester hours in criminal justice. Nine semester hours must be advanced. Criminal justice majors cannot minor in criminal justice.

Required Criminal Justice Courses **9 hours**

| | |
|-----------|------------------------------------|
| CRIJ 1301 | Introduction to Criminal Justice |
| CRIJ 2328 | Police Systems and Practices |
| CRIJ 2313 | Correctional Systems and Practices |

Criminal Justice Electives **9 hours**

Select three courses from the following:

| | |
|-----------|------------------------------------------|
| CRIJ 3303 | Criminology for Criminal Justice |
| CRIJ 3304 | Criminal Justice Research Methods |
| CRIJ 3341 | Probation and Parole |
| CRIJ 3344 | Techniques and Interviewing |
| CRIJ 3345 | Correctional Administration |
| CRIJ 4311 | Police Organization and Administration |
| CRIJ 4312 | Police Supervision |
| CRIJ 4313 | Current Issues in Law Enforcement |
| CRIJ 4341 | Correctional Casework and Counseling |
| CRIJ 4343 | Current Issues in Corrections |
| CRIJ 4361 | Comparative Criminal Justice Systems |
| CRIJ 4362 | Special Topics in Criminal Justice* |
| CRIJ 4363 | Independent Studies in Criminal Justice* |
| CRIJ 4464 | Field Internship Experience |

*Can be taken once only for credit.

• Course Prerequisites

Enrollment in advanced level courses (3000 and 4000) requires having successfully completed a minimum of 45 semester hours, 9 of which must have been in criminal justice, for 3000-level courses and having completed 60 semesters or more, 12 of which must have been in criminal justice, for 4000-level courses or specific permission by the instructor.

◆ Course Descriptions

A listing of courses offered by the Department of Criminal Justice can be found on page 263.

MILITARY SCIENCE

LTC Wallace Cox Jr., Department Chair
 Army Reserve Officers' Training Corps (ROTC)
 Southwick Hall
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Full-time Faculty

Miles, Michael G., *Master Sergeant (R),
 Senior Military Instructor*
 Macias, Tiburcio, *Captain, Assistant Professor
 of Military Science*
 Rivers, Christopher, *LTC, Assistant Professor
 of Military Science*
 Rodriguez, Hector, *Master Sergeant,
 Senior Military Instructor*

► General Overview

The departmental objective is to develop selected men and women with potential to serve as commissioned officers in the active Army, National Guard or Army Reserve. The leadership and management experience gained through the Army Reserve Officers' Training Corps and service as a commissioned officer will benefit the student in civilian as well as in military service and national defense pursuits. Students in the program have the opportunity to:

1. enhance leadership and managerial potential;
2. attain basic understanding of military fundamentals and national security;
3. attain clear understanding of the concept of military art and science; and
4. develop a strong sense of personal honor, integrity and individual responsibility.

◆ ROTC Faculty Advisory Committee

The Reserve Officers' Training Corps (ROTC) Faculty Advisory Committee, composed of 9 advisors from different departments, serves as liaison with the Department of Military Science and helps provide guidance on career opportunities with the Army, Army Reserve or National Guard for students of other departments at The University of Texas-Pan American.

◆ Army Scholarship Program

Students who meet prerequisites may compete for nationally or state-awarded U.S. Army scholarships that pay for tuition, books, fees and other purely educational costs and provide a tax-free monthly subsistence allowance for 10 months of each year the scholarship is in effect. Free room and board is available on campus for a limited number of students, with priority going to ROTC Scholarship winners. Several application deadlines exist. Contact the Department of Military Science for details.

◆ Veterans Assistance

Veterans who enroll in upper-level Military Science receive a tax-free monthly subsistence allowance for 10 months each of the two years, in addition to benefits provided by the Veterans Administration, Army Reserve or National Guard.

◆ Simultaneous Membership Program (SMP)

Eligible students are allowed to participate with Army Reserve units or the National Guard combined with College ROTC. In addition to Reserve or National Guard pay, the student receives ROTC pay. In the SMP, the student's pay will be elevated to the rank of E-5 (Sergeant) and the student will fill the position of a junior leader in that unit. Upon completion of a bachelor's degree and the ROTC program, the student may be commissioned in the Active Army, Army Reserve or National Guard in the rank of second lieutenant.

◆ Departmental Activities

The Department of Military Science sponsors several extracurricular activities such as the annual Military Ball, Dining-Out, JROTC Day, Field Training Exercises and Guadalupe River canoe trip. Additional opportunities to participate in team events are available in Color Guard, Bronc Club and Ranger Challenge.

◆ Army Training

Selected cadets enrolled in the course may be eligible to compete for attendance to either the Airborne, Air Assault, Northern Warfare, Mountain Warfare or Cadet Troop Leadership Training. Selection is based upon 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 Army National Guard through the Reserve Officers' Training Corps (ROTC) program on the Edinburg campus.

• No Commitment or Obligation for Lower Level Courses

Students need not seek a career in the U.S. Army to enroll in lower-level courses such as Marksmanship and First Aid, Survival and Land Navigation Training, and Basic Leadership, which provide the opportunity to increase individual skills and knowledge in leadership and management techniques in and outside the classroom. Lower-level courses also fulfill the physical education requirement for General Education.

• Requirements for Advanced Military Science Standing and Commissioning

1. Complete four semesters of lower-level ROTC courses or have advanced credit as a veteran, or from USAR/ARNG Basic Training, ROTC Basic Camp, or have JROTC credit and approval.

2. Maintain full-time student status.
3. Pass a military physical examination.
4. Pass the ROTC Physical Aptitude Examination.
5. Maintain an overall grade point average of 2.0.
6. Sign an Advanced ROTC and Commissioning Agreement.

7. Successfully complete four semesters of advanced ROTC courses.

8. Successfully complete ROTC Advanced Camp.

9. Successfully complete an undergraduate degree program.

10. Complete at least one departmentally approved Professional Military Education course from each of the areas listed: written communications skills, human behavior, computer literacy, mathematics and military history.

Minor Requirements

18 hours: ROTC 3202 plus 16 hours of advanced military science courses. (ROTC 3401, ROTC 3402, ROTC 4401, ROTC 4403).

◆ Course Descriptions

A listing of courses offered by the Department of Military Science can be found on page 336.

POLITICAL SCIENCE

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Bokina, John, *Professor*

Freeman, Samuel, *Associate Professor*

Garrett, Terry, *Lecturer*

Hayes, Robert, *Lecturer*

Hinojosa, Jose R., *Associate Professor*

Morgan, Glynn, *Associate Professor*

Mounce, Gary, *Associate Professor*

Polinard, J.L., *Professor*

Rivera, Maria, *Lecturer*

Tschoepe, Gary J., *Associate Professor*

Turk, William, *Assistant Professor*

Wenzel, James P., *Assistant 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

Although pre-law advising at UT Pan American is located in the Department of Political Science, any undergraduate major will offer a student the

opportunity to prepare for law school. Students interested in a career in law should obtain the pre-law handout, available in the main office of the Department of Political Science (Social and Behavioral Sciences Building Room 208). For additional information, please contact Dr. J.L. Polinard at 956/381-3341.

◆ Certificate of Legal Reasoning

As part of UTPA's pre-law program, the University offers a Certificate in Legal Reasoning. Students can obtain this certificate by completing the following courses:

| | |
|-----------|-------------------------------------------------|
| PHIL 1320 | Logic <i>or</i> |
| PHIL 2330 | Ethics |
| ENG 4325 | Composition Techniques |
| POLS 4320 | American Constitutional Law: Federalism |
| POLS 4321 | American Constitutional Law: Civil Liberties |
| PREL 4300 | Legal Research & Writing I |
| PREL 4301 | Legal Research & Writing II |

► Degree Requirements

◆ Major in Political Science **124 hours** General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog, including POLS 2313 and 2314 or POLS 2387 and 2388.

College and Departmental Core Requirements **15 hours**

3 hours of modern language in the same language as taken to complete General Education Requirements.

3 hours of social science in a discipline other than the discipline taken to meet the General Education social science requirement.

3 hours of Introductory Statistics (MATH/STAT 2330, PSY/ANTH 2401, SOC 2301, or QUMT 2341. MATH/STAT 2330 satisfies the General Education mathematics requirement.)

6 hours from two of the following three areas:

- Introduction to Political Science (POLS 1333);
- Introduction to Political Economy (POLS 2334);
- Economics (ECO 1301, ECO 2301 or ECO 2302)

Designated Advanced Coursework **27 hours**

- 6 hours in American Government and Politics
- 3 hours in Comparative Government
- 3 hours in International Relations
- 3 hours in Methods of Political Science Research (POLS 3330)
- 3 hours in Political Theory
- 3 hours in Public Administration
- 6 hours of advanced Political Science electives

Hours for Minor and Advanced Electives **34 hours**

◆ Minor in Political Science

18 hours in Political Science, of which 9 hours must be advanced.

Required Courses

| | |
|-----------|-------------------------------------------------|
| POLS 2313 | United States and Texas Government and Politics |
| POLS 2314 | United States and Texas Government and Politics |

Designated Electives

| | |
|-----------|--------------------------------------|
| POLS 1333 | Introduction to Political Science or |
| POLS 2334 | Political Economy |

9 advanced hours in Political Science.

• Teacher Certification in Social Sciences: **129 hours**

Secondary Plan II:

75 hours in Social Sciences and Education.

This is an interdisciplinary program designed specifically for students seeking certification in the Social Sciences in order to teach government, history and economics at the secondary level.

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

College of Social and Behavioral Sciences Requirements **6 hours**

3 hours of modern language (in the same language as taken to satisfy the General Education language requirements).

3 hours of social science in a discipline other than political science or the discipline taken to satisfy the General Education Requirements.

Required Basic Courses **12 hours**

- (beyond General Education Requirements)
 (beyond General Education courses)
- | | |
|-----------|-----------------------------------------------------|
| ECON 2301 | Principles of Economics I* |
| ECON 2302 | Principles of Economics II |
| HIST 2313 | American Heritage I* |
| HIST 2314 | American Heritage II* |
| HIST 2332 | World Civilization I |
| HIST 2333 | World Civilization II |
| POLS 2313 | United States and Texas Government and Politics* |
| POLS 2314 | United States and Texas Government and Politics* |
| POLS 2334 | Introduction to Political Economy |

* Part of the 48-hour General Education requirements

Required Advanced Courses **30 hours**

- | | |
|-----------|-------------------------------------------------|
| HIST 3303 | Geography and Environment |
| HIST 3330 | A General Survey of the History of Texas |
| HIST 3332 | Historiography and Methods |
| EDCI 4301 | Foundations in Education |
| EDCI 4302 | Educational Psychology |
| EDCI 4307 | Secondary Curriculum: Internship I |
| EDCI 4308 | Advanced Secondary Curriculum: Internship II |
| EDCI 4641 | Secondary Internship |
| READ 4351 | Developmental Reading in Secondary Schools |

Designated Advanced Electives **33 hours**

History: Select 12 advanced hours in history. Three hours must be selected from each of the three following history fields: American, Latin American, European.

Political Science: Select 15 advanced hours in political science. Nine hours must be from the following designated courses:

- | | |
|-----------|--------------------------------------------------|
| POLS 3314 | American State and Local Government |
| POLS 3316 | American Public Policy |
| POLS 3333 | Classical Political Theory |
| POLS 4320 | American Constitutional Law: Federalism* |
| POLS 4321 | American Constitutional Law: Civil Liberties* |
| POLS 4332 | American Political Theory |
| POLS 4360 | American Executive Process |
| POLS 4363 | American Legislative Process |

No Image Available due to file size.

- | | |
|-----------|-----------------------------------------|
| POLS 4367 | American Judicial Process* |
| POLS 4373 | American Political Parties and Politics |
| POLS 4374 | Public Opinion and Political Behavior |

*Only one course from POLS 4320, 4321 and 4367 may be counted toward fulfilling the 9-hour requirement.

Economics:

Select 6 hours from the following designated courses:

- | | |
|-----------|-----------------------------|
| ECON 3351 | Macroeconomic Theory |
| ECON 3352 | Microeconomic Theory |
| ECON 3355 | Economic Development |
| ECON 4359 | History of Economic Thought |

Total Required for Graduation **129 hours**

Additional Requirements

1. Students must have a 2.5 cumulative GPA in their history, political science and economics courses.
2. Students must have a "C" or better in each of their history, political science and economics courses.

◆ Course Descriptions

A listing of courses offered by the Department of Political Science can be found on page 326.

PSYCHOLOGY & ANTHROPOLOGY

Dr. Etzel Cardeña, *Department Chair*

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E-mail: psyanthdept@panam.edu

On the web: <http://www.panam.edu/dept/psych-anth>

Dr. Thomas Pozorski, *Anthropology Coordinator*

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E-mail: psyanthdept@panam.edu

On the web: <http://www.panam.edu/dept/psych-anth/anthindex.html>

PSYCHOLOGY

Full-time Faculty

Alamia, Alfonso J., *Assistant Professor*

Aldridge, James W. Jr., *Professor*

Cain, Roy E., *Associate Professor*

Cardeña, Etzel, *Associate Professor*

Eisenman, Russell, *Assistant Professor*

Gonzalez, Genaro, *Professor*

James-Aldridge, Valerie G., *Associate Professor*

Jou, Jerwen, *Professor*

Kendrick, Sherrill, *Assistant Professor*

Montgomery, Gary T., *Professor*

Winkel, Mark H., *Associate Professor*

Wisener, Robert H. III, *Assistant Professor*

► **General Overview of Psychology Program**

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 BS 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 BS degree also take further courses in the natural sciences and computer science.

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 Statement**

The Department of Psychology and Anthropology is an academic administrative unit within the College of Social and Behavioral Sciences at The University of Texas-Pan American. The department has been established to facilitate accomplishing the University mission to meet the higher education needs of the citizenry of South Texas and the State of Texas. The department is committed to excellence in instruction, student performance, research, scholarly accomplishment and professional service in the disciplines constituting psychology and anthropology.

The Department of Psychology and Anthropology strives to fulfill its responsibilities by providing quality undergraduate academic programs in anthropology and psychology. At the graduate level, the department provides opportunities for students with baccalaureate degrees to pursue advanced study in clinical and experimental psychology. (More information on graduate programs is available in the Graduate Catalog.) The department is committed to providing an environment of academic freedom and academic responsibility so that faculty may develop and implement successful teaching activities that ensure high standards of instruction and student performance.

The Department of Psychology and Anthropology recognizes that its faculty has a commitment to those research and creative activities indicative of scholarly excellence. The department attempts to nurture and support such activities so that faculty may maintain currency in their knowledge of subject matter, vibrancy in their teaching, dedication to their respective

disciplines, and interest in extending the boundaries of human knowledge and understanding.

The Department of Psychology and Anthropology is also committed to providing effective instructional opportunities for all students at the University, regardless of their major area of concentration. The department attempts to meet this goal by providing students with instruction in several areas of study that ground the liberal arts tradition. To this end, the department provides instructional opportunities for all students to develop further the following characteristics indicative of a university-educated person:

1. An inquiring attitude that acknowledges the many-sided nature of most important questions, recognizes the need to examine inherited judgments, and reveals a desire for continued learning and creative expression.
2. The ability to use words accurately and effectively, and to communicate clearly in oral and written formats.
3. The ability to analyze complex problems and to synthesize facts and ideas.
4. An appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; sensitivity to the need for informed, independent, moral and ethical decisions.
5. Knowledge of political and social systems in the United States and other nations, and their interrelationships.
6. An understanding of self, along with an empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.

The Department of Psychology and Anthropology is also committed to sponsoring service activities that meet the intellectual and cultural interests of the University and the community that the University serves.

► Degree Requirements

◆ Major in Psychology (BA Degree)

General Education Requirements **48 hours**
Complete the General Education requirements as shown on pages 91-93 of this catalog.

College Core **9 hours**
6 hours in two separate social science disciplines outside the major.

3 additional hours in either the same language or 3 hours of communication.

Core Courses **16 hours**

| | |
|----------|-----------------------------------------|
| PSY 1310 | Introduction to Psychology |
| PSY 2401 | Basic Statistics for Psychologists |
| PSY 3325 | Research Methods |
| PSY 3343 | Tests and Measurements in Psychology |
| PSY 4313 | Abnormal Psychology |

Electives **15 hours**

Select 15 hours of psychology courses, 9 of which must be advanced.

Other requirements for BA or BS degree in Psychology:

Please be aware of the "Requirements for a Bachelor's Degree" enumerated on pages 62-63. These include completion of a total of 124 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)

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

College Core **9 hours**

6 hours in two separate social science disciplines outside the major.

3 additional hours in either the same language or 3 hours of Communication.

Core Courses **13 hours**

| | |
|----------|-----------------------------------------|
| PSY 1310 | Introduction to Psychology |
| PSY 2401 | Basic Statistics for Psychologists |
| PSY 3325 | Research Methods |
| PSY 3343 | Tests and Measurements in Psychology |

Designated Electives **18 hours**

| | | |
|-------------------------------------------------------|-----------------------------|----------|
| 1. Select one course from each of the following sets: | | 12 hours |
| PSY 4313 | Abnormal Psychology or | |
| PSY 4333 | Theories of Personality | |
| PSY 3353 | Physiological Psychology or | |
| PSY 3373 | Sensation and Perception | |

| | |
|----------|------------------------------------|
| PSY 4319 | Cognitive Processes <i>or</i> |
| PSY 4320 | Memory |
| PSY 4318 | Theories of Learning <i>or</i> |
| PSY 4363 | Systems and Theories in Psychology |

2. *Select one course from the following: 3 hours*

| | |
|----------|----------------------------------------------------|
| PSY 3324 | Social Psychology |
| PSY 2336 | Developmental Psychology: Adolescence |
| PSY 3337 | Developmental Psychology: Lifespan |
| PSY 3332 | Developmental Psychology: Infancy and Childhood |
| PSY 3333 | Psychology of Adulthood: Maturity and Old Age |

3. *Select one course from the following: 3-4 hours*

| | |
|----------|--------------------------|
| PSY 2331 | Psychology of Disability |
| PSY 3340 | Stress Management |
| PSY 3345 | Psychology of Learning |
| PSY 3405 | Behavior Modification |

Electives

6 hours

Select 6 hours of Psychology courses.

Other Requirements

11-20 hours

1. *Select two sequences from the following:*

| | |
|-----------|-------------------------------------------------------|
| BIOL 1401 | General Biology <i>and</i> |
| BIOL 1402 | General Biology |
| CHEM 1301 | General Chemistry/General Chemistry Lab <i>and</i> |
| /1101 | |
| CHEM 1302 | General Chemistry/General Chemistry Lab |
| /1102 | |
| PHYS 1401 | General Physics <i>and</i> |
| PHYS 1402 | General Physics |

NOTE: One of the sequences may be taken as a part of the General Education requirements above.

2. *Select one additional course from the following:*
A biology, chemistry or physics course that is sophomore (2000) level or higher, or a computer science course above CSCI 1300.

Other Requirements

Completion of 15 hours of advanced coursework in psychology as a part of the requirements noted above.

Please be aware of the "Requirements for a Bachelor's Degree" enumerated on pages 62-63. These include completion of a total of 124 hours of

coursework, completion of a minor, and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

◆ Minor in Psychology

18 hours in Psychology, of which 6 must be advanced.

Required Course

PSY 1310 Introduction to Psychology

◆ Course Descriptions

A listing of Psychology courses can be found on page 331.

ANTHROPOLOGY

Full-time Faculty

Glazer, Mark, *Professor*
Hinojosa, Servando, *Assistant Professor*
Pozorski, Shelia, *Professor*
Pozorski, Thomas, *Professor*

► General Overview of Anthropology Program

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 topics 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 Statement**

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 Anthropology Program recognizes that its faculty has a commitment to those research and creative activities indicative of scholarly excellence. The program attempts to nurture and support such activities so that faculty may maintain currency in their knowledge of subject matter, vibrancy in their teaching, dedication to their respective disciplines, and interest in extending the boundaries of human knowledge and understanding.

The Anthropology Program is also committed to providing effective instructional opportunities for all students at the University, regardless of their major area of concentration. The program attempts to meet this goal by providing students with instruction in several areas of study that ground the liberal arts tradition. To this end, the program provides instructional opportunities for all students to develop

further the following characteristics indicative of a university-educated person:

1. Learning about anthropology fosters an inquiring attitude that acknowledges the many-sided nature of most important questions, recognizes the need to examine inherited judgments and reveals a desire for continued learning and creative expression.

2. A holistic approach to anthropology hones a person's ability to use words accurately and effectively and to communicate clearly in oral and written formats.

3. Anthropological thinking nurtures the ability to analyze complex problems and to synthesize facts and ideas.

4. Exposure to the field of anthropology encourages an appreciation for the responsibilities of the individual to family and society; skill in serving as a constructive member in groups and organizations; and sensitivity to the need for informed, independent, moral and ethical decisions.

5. Learning about anthropology increases knowledge about political and social systems in the United States and other nations, and their interrelationships; such multicultural perspectives can foster greater understanding, tolerance and respect for different lifestyles and viewpoints.

6. Anthropology encourages an understanding of self, along with an empathy for the strengths, weaknesses, rights and needs of others, as well as the ability to relate to others with human understanding.

The Anthropology Program is also committed to sponsoring service activities that meet the intellectual and cultural interests of the University and the community that the University serves.

► **Degree Requirements**

The department offers a major in anthropology leading to the Bachelor of Arts degree.

◆ **Major in Anthropology**

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

College Core **9 hours**

6 hours in two separate social science disciplines outside the major.

3 additional hours in either the same language or 3 hours of Communication.

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Core Courses

15 hours

- ANTH 1323 Introduction to Cultural Anthropology
 ANTH 1324 Human Evolution
 ANTH 1342 Introduction to Archaeology
 ANTH 1353 Introduction to Folklore
 ANTH 4345 Anthropological Theory and Methodology

Designated Electives

21 hours

Select 21 hours from anthropology; a substitution for one 3-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 18 hours in anthropology must be at the advanced level.

Please be aware of the "Requirements for a

Bachelor's Degree" enumerated on pages 62-63. These include completion of a total of 124 hours of coursework, completion of a minor, and completion of a minimum of 51 hours of upper-level (3000/4000) coursework.

◆ Minor in Anthropology

18 hours in Anthropology, of which 6 hours must be advanced.

Required Courses

- ANTH 1323 Introduction to Cultural Anthropology
 ANTH 1324 Human Evolution
 ANTH 4345 Anthropological Theory and Methodology

◆ Course Descriptions

A listing of Anthropology courses can be found on page 234.

SOCIOLOGY

Dr. Lee Maril, *Department Chair*

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Full-time Faculty

Balderrama, Rafael, *Lecturer*

Bastida, Elena, *Professor*

Guerra, Ramon S., *Assistant Professor*

Himmel, Kelly F., *Associate Professor,
Graduate Advisor*

Liebowitz, Stephen W., *Associate Professor*

Maril, Lee, *Professor*

Raajpoot, Uzzer A., *Associate Professor*

Richardson, D. Chad, *Professor*

► General Overview

The Department of Sociology offers a major in sociology leading to the 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 excellent background for those persons considering careers in such fields as education, health, law, law enforcement, business and journalism.

► Degree Requirements

◆ Major in Sociology

General Education Requirements **48 hours**

Complete the General Education requirements as shown on pages 91-93 of this catalog.

College of Social and Behavioral

Sciences Requirements **9 hours**

6 additional hours of Social Science courses in 2 separate Social Science disciplines (anthropology, criminal justice, economics, political science or psychology) outside sociology.

3 hours in the same modern language used to satisfy the General Education requirement or 3 hours of Communication (COMM 1303, 1313).

Core Courses

15 hours

| | |
|----------|----------------------------------------|
| SOC 1313 | Principles of Sociology |
| SOC 2301 | Statistics for the Behavioral Sciences |
| SOC 3301 | Methods of Social Research |
| SOC 4333 | Social Theory |
| SOC 4352 | Social Inequality |

Designated Electives

15 hours

Select 15 hours of Sociology, of which at least 9 hours must be advanced.

Other requirements for BA in Sociology:

Please be aware of the "Requirements for a Bachelor's Degree" enumerated on pages 62-63. These include completion of a total of 124 hours of coursework, completion of a minor, and completion of a minimum of 45-54 hours of upper-level (3000/4000) coursework.

◆ Minor in Sociology

18 hours in Sociology, of which 9 hours must be advanced; must include the following:

| | |
|----------|-------------------------|
| SOC 1313 | Principles of Sociology |
| SOC 4333 | Social Theory <i>or</i> |
| SOC 4352 | Social Inequality |

◆ Course Descriptions

A listing of courses offered by the Department of Sociology can be found on page 338.

Undergraduate COURSE DESCRIPTIONS

No Image Available due to file size.

COURSE CODES

Every course at The University of Texas-Pan American is identified by a subject code with a maximum of four letters and a four-digit number that specifies the level and the number of hours of credit for the course.

Course numbers show both the collegiate level at which they are offered and the semester hour value of the course. The first digit shows the level and the second digit shows the credit hours. The last two digits

are departmental designations. For example, SPAN 1301 is a Spanish course given in the freshman year that carries three hours of credit per semester. All undergraduate courses ending in the numbers 87 and 88 are honors courses.

For more information on course numbering, see page 49. The subject codes listed below correspond to the following subjects and departments:

| Code | Subject | Department, College or Program | Page |
|------|----------------------------------------------|----------------------------------------------------------|------|
| ACC | Accounting | Accounting and Business Law | 233 |
| ANTH | Anthropology | Psychology and Anthropology | 234 |
| ART | Art | Art | 237 |
| ASTR | Astronomy | Physics and Geology | 241 |
| BIBL | Bible | History and Philosophy | 241 |
| BIOL | Biology | Biology | 242 |
| BLAW | Business Law | Accounting and Business Law | 246 |
| CHEM | Chemistry | Chemistry | 246 |
| CHIN | Chinese | Modern Languages and Literature | 249 |
| CIS | Computer Information Systems | Computer Information Systems and Quantitative Methods | 249 |
| CLSC | Clinical Lab Sciences | Clinical Laboratory Sciences | 251 |
| COMD | Communication Disorders | Communication Sciences and Disorders | 253 |
| COMM | Communication | Communication | 255 |
| CRIJ | Criminal Justice | Criminal Justice | 263 |
| CSCI | Computer Science | Computer Science | 265 |
| DANC | Dance | College of Education | 268 |
| DIET | Dietetics | Dietetics | 271 |
| ECON | Economics | Economics, Finance and General Business | 272 |
| ED | Education | Educational Psychology | 274 |
| EDAC | Education: Alternative Certification Program | Curriculum and Instruction | 275 |
| EDBE | Education: Bilingual Education | Curriculum and Instruction | 276 |
| EDCI | Education: Curriculum and Instruction | Curriculum and Instruction | 276 |
| EDEC | Education: Early Childhood | Curriculum and Instruction | 279 |
| EDUK | Kinesiology Education | Health and Kinesiology | 280 |
| ELEE | Electrical Engineering | Engineering | 280 |
| ENG | English | English | 282 |
| ENGR | General Engineering | Engineering | 286 |
| FINA | Finance | Economics, Finance and General Business | 287 |
| FREN | French | Modern Languages and Literature | 288 |
| GEOG | Geography | Physics and Geology | 289 |
| GEOL | Geology | Physics and Geology | 289 |
| GERM | German | Modern Languages and Literature | 290 |
| HIST | History | History and Philosophy | 290 |
| HLTH | Health | Health and Kinesiology | 294 |
| HONR | Honors | Honors Studies Program | 295 |
| HRP | Health-Related Programs | College of Health Sciences and Human Services | 296 |

No Image Available due to file size.

| Code | Subject | Department, College or Program | Page |
|-------------|----------------------------------|-------------------------------------------------------|-------------|
| INTB | International Business | Management, Marketing and International Business | 296 |
| JAPN | Japanese | Modern Languages and Literature | 297 |
| KIN | Kinesiology | Health and Kinesiology | 298 |
| MANA | Management | Management, Marketing and International Business | 299 |
| MANE | Manufacturing Engineering | Engineering | 301 |
| MARK | Marketing | Management, Marketing and International Business | 303 |
| MATH | Mathematics | Mathematics | 304 |
| MECE | Mechanical Engineering | Engineering | 308 |
| MUS | Music | Music | 311 |
| NURS | Nursing | Nursing | 315 |
| OCCT | Occupational Therapy | Occupational Therapy | 317 |
| PHAS | Physician Assistant Studies | Physician Assistant Studies | 319 |
| PHIL | Philosophy | History and Philosophy | 323 |
| PHYS | Physics | Physics and Geology | 325 |
| POLS | Political Science | Political Science | 326 |
| PSCI | Physical Science | Physics and Geology | 330 |
| PSY | Psychology | Psychology and Anthropology | 331 |
| QUMT | Quantitative Methods | Computer Information Systems and Quantitative Methods | 333 |
| READ | Reading | Curriculum and Instruction | 334 |
| REHS | Rehabilitative Services | Rehabilitative Services | 335 |
| ROTC | Reserve Officers' Training Corps | Military Science | 336 |
| RUSS | Russian | Modern Languages and Literature | 338 |
| SOC | Sociology | Sociology | 338 |
| SOCW | Social Work | Social Work | 341 |
| SPAN | Spanish | Modern Languages and Literature | 343 |
| SPED | Special Education | Educational Psychology | 346 |
| STAT | Statistics | Mathematics | 347 |

Accounting

ACC 2329 Fundamentals of Managerial Accounting [3-0]

(Texas Common Course Number is ACCT 2301.)
Fall, Spring, Summer

This course discusses selected management accounting techniques consistent with contemporary management philosophies. Activity-based costing, cost of quality, cost classification, relationships, and analysis, as well as short and long-term decision making are emphasized. *Prerequisite:* 2421 with a grade of "C" or better.

ACC 2421 Introduction to Financial Accounting [4-0]

(Texas Common Course Number is ACCT 2401.)
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. Mandatory lab, two hours per week. *Prerequisites:* MATH 1340 or MATH 1321 with a grade of "C" or better.

ACC 3300 Internship in Accounting [3-0]

Fall, Spring, Summer

This course is designed to give students an opportunity to gain real world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. *Prerequisites:* Upper-division standing and approval by both department chair and employer providing internship experience.

ACC 3320 Cost Accounting [3-0]

Fall, Spring, Summer

This course complements the coverage in ACC 2329, and focuses on product costing, cost allocation, and budgeting techniques. Specifically, it emphasizes master and flexible budgets, and job order and process costing, joint cost allocation, and standard costing and analysis. *Prerequisite:* ACC 2329 with a grade of "C" or better.

ACC 3321 Intermediate Accounting I [3-0]

Fall, Spring, Summer

A study of the accounting process and financial statements, including a thorough examination of the procedures involved in financial statement presentation as well as the underlying theory; a detailed study of current assets and current liabilities. *Prerequisite:* ACC 2329 with a grade of "C" or better.

ACC 3322 Intermediate Accounting II [3-0]

Fall, Spring, Summer

Continuation of the examination of the accounting process with emphasis on non-current assets and liabilities including pensions and leases. *Prerequisite:* ACC 3321 with a grade of "C" or better.

ACC 3323 Income Tax Procedure [3-0]

Fall, Spring, Summer

This course provides an analysis of federal tax laws, with emphasis being placed on the determination of net taxable income and the preparation of income tax returns for individuals. *Prerequisite:* Junior standing

ACC 3325 Fund Accounting [3-0]

Fall, Spring or Summer

The special features of fund accounting as applied to not-for-profit entities, municipalities, school districts and other governmental units. *Prerequisite:* ACC 2421 with a grade of "C" or better.

ACC 3326 Accounting Information Systems [3-0]

Fall, Spring, Summer

This course prepares the student to succeed in upper level accounting and business courses that require computer use proficiency. It emphasizes the contemporary computer skills demanded of an accounting professional. It also solidifies the student's knowledge of the accounting cycle and accounting controls. *Prerequisite:* ACC 2329

ACC 3327 Fundamentals of Auditing [3-0]

Fall, Spring, Summer

This course surveys auditing standards and procedures applied by public accountants and internal auditors in examining financial statements and verifying underlying data. The scope of this course includes elements of operational auditing. *Prerequisite:* ACC 3322 or concurrent enrollment.

ACC 3328 Advanced Cost Accounting [3-0]*Fall or Spring*

This course covers cost/management accounting topics, including transfer pricing, segment reporting, performance evaluation, capital budgeting, cost control, and activity-based costing. *Prerequisite:* ACC 3320 with a grade of "C" or better.

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 included accounting for income taxes, and comprehensive income. *Prerequisite:* ACC 3322 with a grade of "C" or better.

ACC 3350 Introduction to International Accounting [3-0]*Fall, Spring*

This course examines the similarities and differences between selected U.S. and International Accounting Standards. It also examines the effects of socio-economic and cultural factors on the development of accounting standards in different regions of the world. Finally, this course explores the role of IASB in the international standard setting process. *Prerequisites:* ACC 3321 and INTB 3330

ACC 4323 Contemporary Accounting Theory [3-0]*Fall or Summer*

A study of the theory and techniques of accounting for investments in the stock of other companies with emphasis on long-term investments with consolidated financial statements. *Prerequisite:* ACC 3322 with a grade of "C" or better.

ACC 4327 Advanced Auditing (Auditing II) [3-0]*Fall, Spring*

This course embodies a study of selected standards of auditing with an emphasis on new topics in auditing, cases, reading and problems used to illustrate applications of auditing. Included are such topics as statistical sampling, auditing effects of EDP, internal auditing functions, operational auditing and work paper techniques. *Prerequisites:* ACC 3327 with a grade of "C" or better and QUMT 3342.

ACC 4329 Corporate & Partnership Taxation [3-0]*Fall, Spring*

Comprehensive analysis of federal income tax consequences applicable to business entities. Tax law

topics for regular Subchapter C and Subchapter S corporations and partnerships will be discussed. Multistate and international tax topics may also be covered. *Prerequisite:* ACC 3323 or consent of department.

ACC 4330 Advanced Accounting I [3-0]*Fall, Spring*

A study of the theory and techniques of accounting for partnerships and consolidated financial statements. *Prerequisite:* ACC 3322 with a grade of "C" or better.

ACC 4331 Advanced Accounting II [3-0]*Fall, Spring*

A study of selected accounting topics. This course will have variable content and may be repeated for credit with consent of instructor. *Prerequisite:* ACC 3322 with a grade of "C" or better.

ACC 4332 Advanced Income Tax Research [3-0]*Fall, Spring*

A course to acquaint the student with the organization of the Internal Revenue Service and its relation to practice, tax research techniques, and ethical tax advice and reporting. *Prerequisite:* ACC 3323 or consent of department.

ACC 4333 Estate and Gift Taxation [3-0]*Fall, Spring*

Topics related to estate, gift and trust taxation will be included. Integration of these taxes with income taxes and personal financial plans also will be explored. *Prerequisite:* ACC 3323 or consent of department.

Anthropology

ANTH 1323 Introduction to Cultural Anthropology [3-0]*Fall, Spring, and As Scheduled*

An introduction to cultural anthropology. Major aspects of culture (social organization, economics, religion, etc.), cultural patterns and socio-cultural change are emphasized.

ANTH 1324 Human Evolution [3-0]*Fall, Spring*

An introduction to human evolution, hominid morphology, human variation and prehistoric development. A survey of the biological and cultural

evolution of human beings to the present.

ANTH 1342 Introduction to Archaeology [3-0]

Fall, Spring

General introduction to the field of archaeology. Emphasis on methods of data collection, analysis and a world review of major events in the development of past human civilizations. *Previous Course Number:* ANTH 2342. Credit may be received for only one course.

ANTH 1353 Introduction to Folklore [3-0]

Fall and As Scheduled

General introduction into the field of folklore data including collection, preservation, analysis and interpretation according to the main social science theories of folklore. Emphasis on folk music, narrative, drama, art, medicine and material culture. *Previous Course Number:* ANTH 2353. Credit may be received for only one course.

ANTH 2323 Mexican-American Culture [3-0]

Fall and As Scheduled

An introduction to the culture and tradition of Mexican-Americans. The cultural history, organization of the family, traditions, lifestyle, kinship patterns, values and social organization of Chicano culture will be emphasized.

ANTH 2401 Basic Statistics for Anthropologists [3-0]

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 6 hours from the following: ANTH 1323, ANTH 1324, ANTH 1342; PSY 1310.

ANTH 3333 United States and Other World Cultures [3-0]

Fall, Spring, and As Scheduled

This course is concerned with the many aspects of human culture — including traditions, customs, folkways and religious beliefs — on local, national and worldwide levels. It explores topics ranging from roles and responsibilities within the family unit to the interaction of different cultures with their social and physical environment. As the course assesses important contributions of various past and present cultures,

considerable emphasis is placed on similarities and differences between the United States and other world cultures. *Prerequisite:* 3 hours from any of these areas: anthropology, economics, psychology or sociology, or consent of instructor.

ANTH 3343 Museum Studies [3-0]

Fall, Spring

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 6 hours credit. *Prerequisite:* 6 hours of anthropology or consent of instructor.

ANTH 3344 Archive Studies [3-0]

Fall, Spring

Students 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 6 hours credit. *Prerequisite:* 6 hours of anthropology or consent of instructor.

ANTH 3363 Archaeological Method and Theory [3-0]

Spring, even years

Reviews major theoretical orientations from an historical perspective with an emphasis on current approaches. Examines major aspects of archaeological methodology including excavation and laboratory procedures, sampling strategy, dating techniques, and floral and faunal analysis. *Prerequisite:* ANTH 1342 or consent of instructor.

ANTH 3368 Peoples of South America [3-0]

Spring, even years

A study of societies native to the South American continent from the time of the first Western contact to the present. Considerable emphasis is placed on their interactions with environments as diverse as the high Andes and the Amazon basin. *Prerequisite:* ANTH 1323 or consent of instructor.

ANTH 3375 Mexican-American Folklore [3-0]*Spring, even years*

This course is designed to introduce Mexican-American folklore. The course includes the study of Chicano legends, folk tales, riddles, folk music, ballads and festivals. Students have the opportunity to learn how to collect and archive folklore materials. *Prerequisite:* ANTH 1353 or consent of instructor.

ANTH 3380 Social Anthropology [3-0]*Fall, even years*

A cross-cultural review of kinship, economic and political organization. The course will review rules of marriage, descent groups, reciprocity, bands, tribes and chiefdoms, among other topics. *Prerequisites:* ANTH 1323 or ANTH 2323 or consent of instructor.

ANTH 4302 Primate Behavior [3-0]*Spring, odd years*

A review of the behavior of selected representatives of the order Primates, based upon research conducted both in the laboratory and in the field. In addition, students will collect and analyze data on a representative primate group at the Gladys Porter Zoo in Brownsville. Equivalent Course: May be counted as PSY 4302; a student may receive credit for only one course. *Previous Course Number:* ANTH 3384; a student may receive credit for only one course. *Prerequisites:* PSY 1310 and PSY 3383, or ANTH 1324, or consent of instructor.

ANTH 4345 Anthropological Theory and Methodology [3-0]*Spring, odd years*

Instruction in the methodology (interviewing, participant observation, network analysis, etc.) and theoretical perspectives of anthropology. *Prerequisite:* 6 hours of anthropology.

ANTH 4348 Peoples and Cultures of Mexico [3-0]*Spring, odd years*

This course provides an introduction to the diverse peoples and cultures of Mexico and Central America. The traditions, beliefs and practices of different cultures will be examined through an emphasis on the ethnography and ethno-history of indigenous cultures of the region. *Prerequisite:* 6 hours of anthropology or consent of instructor.

ANTH 4350 Mexican-American Folk Medicine

This course is concerned with popular medical traditions

found among Mexicans and Mexican Americans. It identifies influences from European and Native American sources, and examines ongoing changes in the folk medical landscape. *Prerequisites:* ANTH 1323 or ANTH 2323 or ANTH 1353 or consent of instructor.

ANTH 4353 Folklore of the Lower Rio Grande Valley [3-0]*Fall, even years on an arranged basis*

A field research approach to the folklore of the Valley. A review of the legends, fairy tales, ballads, proverbs, riddles and folklife of the Lower Rio Grande Valley. *Prerequisites:* ANTH 1353 or ANTH 3375 and consent of instructor.

ANTH 4355 Psychology and Mythology [3-0]*Fall, odd years*

This course will study the impact and interrelationships of psychological thought and mythological theory. The impact of the theories of Freud, Adler, Jung, Levi-Strauss and others on mythology will be studied. *Equivalent Course:* PSY 4355; a student may receive credit in only one course. *Prerequisite:* ANTH 1323, ANTH 1353, PSY 1310 or consent of instructor.

ANTH 4365 Archaeology of South America [3-0]*Fall, odd years*

A study of the prehistory of South America, with an emphasis on the Andean area. Cultural development will be traced from the time of the first inhabitants through the Incas. The development of complex societies leading up to the Incas will be emphasized. *Prerequisite:* ANTH 1342 or consent of instructor.

ANTH 4369 Archaeology of Mexico and Central America [3-0]*Fall, even years*

A study of the prehistory of Mexico and Central America beginning with the first cultures to inhabit the area and ending with the arrival of the Spanish. Major civilizations of the area, including the Olmecs, Mayas and Aztecs, will be emphasized. *Prerequisite:* ANTH 1342 or consent of instructor.

ANTH 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 U.S.

will be emphasized. Prerequisite: ANTH 1342 or consent of instructor.

ANTH 4385 Topics in Anthropology [3-0]
As Arranged

Topics are varied according to availability of faculty and student interest. Course can be repeated as topics change. *Prerequisites:* 6 hours of anthropology and consent of instructor.

ANTH 4395 Fieldwork in Anthropology [3-0]
As Arranged

Students gain practical experience by participating in anthropological research projects that involve fieldwork. Each student will work closely with one or more professionals. This will enable students to receive both instruction about the specific topic under investigation and practical experience in applying appropriate field research methods. May be repeated for a total of 9 hours credit as topics change. *Prerequisites:* 6 hours of anthropology and consent of instructor.

ART

ART 1301 Art Appreciation [3-0]
(Texas Common Course Number is ARTS 1301.)
Fall, Spring, Summer

Values and meanings in the visual arts. This is a general art lecture course concentrating on development and differences in artistic style.

ART 1311 Drawing I [3-0]
(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 3 hours of outside assignments per week is required. \$4 laboratory fee.

ART 1331 Design I [3-0]
(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 3 hours of outside assignments per week is required. \$4 laboratory fee.

ART 1332 Digital Typography [3-0]
Fall, Spring

An introduction to the study of letterforms, their

application in design and technical translation to computers. This course will utilize type as the basic material of graphic communications taking the place of image, design, illustration, or photography to convey a message. The final project will cover font design by the manipulation of existing typefaces. Development of concept, content and execution is stressed. A minimum of 3 hours of outside assignments per week is required. \$4 laboratory fee.

ART 2303 Jewelry/Metalworking I [3-0]
(Texas Common Course Number is ARTS 2341.)
Fall, Spring

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 3 hours of outside assignments per week is required. \$4 laboratory fee.

ART 2312 Drawing II [3-0]
(Texas Common Course Number is ARTS 2380.)
Fall, Spring

The human figure as expressive subject matter in drawing. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 1311. \$4 laboratory fee.

ART 2321 Painting I [3-0]
(Texas Common Course Number is ARTS 2316.)
Fall, Spring

Introduction to water painting media involving individual development and invention. A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* ART 1311 and ART 1331. \$4 laboratory fee.

ART 2322 Painting II [3-0]
(Texas Common Course Number is ARTS 2317.)
Spring and As Scheduled

An introduction to oil and/or acrylic painting techniques working from nature and the living model. Observation and interpretation are stressed. A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* ART 1311 and ART 1331. \$4 laboratory fee.

ART 2332 Design II [3-0]
(Texas Common Course Number is ARTS 1312.)
Spring, Summer II

Three-dimensional design includes investigation into the phenomena existing in the three-dimensional arts. A variety of materials handling and creative methods

for the purposes of creating a three-dimensional form are considered. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 1331. \$4 laboratory fee.

ART 2341 Sculpture I [3-0]
(Texas Common Course Number is ARTS 2326.)
Fall

Introductory course in sculptural concepts through basic sculptural media. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 2332. \$4 laboratory fee.

ART 2351 Art Survey I [3-0]
(Texas Common Course Number is ARTS 1303.)
Fall

Historical survey of art from Paleolithic through the Middle Ages.

ART 2352 Art Survey II [3-0]
(Texas Common Course Number is ARTS 1304.)
Spring

Historical survey of art from the Renaissance through modern times.

ART 2361 Printmaking I [3-0]
(Texas Common Course Number is ARTS 2333.)
Fall, Spring

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:* ART 1311 and ART 1331. \$4 laboratory fee.

ART 2371 Ceramics I [3-0]
(Texas Common Course Number is ARTS 2346.)
Fall, Spring

Introduction to ceramic design concentrating on handbuilding. Some work with potter's wheel, glazing and firing. A minimum of 3 hours of outside assignments per week is required. \$4 laboratory fee.

ART 3302 Jewelry/Metalworking II [3-0]
Fall, Spring

Continuation of jewelry/metalworking processes with an emphasis on advanced techniques. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 2303. \$4 laboratory fee.

ART 3303 Jewelry/Metalworking III [3-0]
Fall, Spring

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 3 hours of outside assignments per week is required. *Prerequisite:* ART 3302. \$4 laboratory fee.

ART 3311 Drawing III [3-0]
Fall, Spring

Advanced experience in drawing; these may include mixed mediums, experimental surfaces and other nontraditional directions. *Prerequisites:* ART 1311 and ART 2312. \$4 laboratory fee.

ART 3321 Painting III [3-0]
Fall, Spring

Advanced studio problems in painting. (May be repeated for a total of 12 hours credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* ART 1311 and ART 1331. \$4 laboratory fee.

ART 3330 Digital Illustration [3-0]
Fall

This course will explore computer illustration techniques using the vector drawing tools of Adobe Illustrator combined with the bit-mapped attributes of Adobe Photoshop. A minimum of 3 hours of outside assignments per week is required.

ART 3331 Visual Communications I [3-0]
Fall

The translation of verbal language into visual language through a variety of media. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 3333. \$4 laboratory fee.

ART 3333 Design and Production [3-0]
Fall

Introduction to graphic design and production. This course offers the opportunity to develop the awareness of graphic images and teaches the tools and techniques of preparing camera-ready duplication. A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* ART 1331 and ART 1332. \$4 laboratory fee.

ART 3334 Photography as an Art Form [3-0]
Spring

Introduction to photography as a means of personal expression. The history of art photography is covered.

Emphasis is on black and white processes. Students must provide own 35mm camera. A minimum of 3 hours outside work per week is required. *Prerequisite:* ART 1331. \$4 laboratory fee.

ART 3335 Computer Graphics [3-0]
Fall, Spring

A study of the basic technology necessary for the use of the graphic computer for processing visual elements. Students will produce hands-on computer graphics in an interactive creative environment. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 1331 or permission of instructor.

ART 3336 Computer Graphics II [3-0]
Fall, Spring

A continuation of the basic skills learned in Computer Graphics. Additional software is introduced, and emphasis will be on design production via the computer. *Prerequisite:* ART 3335.

ART 3341 Sculpture II [3-0]
Fall, Spring

Emphasis on individual development. Consideration of additional mediums for sculptural expression. A minimum of 3 hours per week of outside class work. *Prerequisite:* ART 2341. \$4 laboratory fee.

ART 3352 Contemporary Art [3-0]
Spring

Art history from the 19th Century in Europe to the present. Development and growth of today's arts and aesthetics. *Prerequisites:* ART 2351 and ART 2352.

ART 3353 Art of the Ancient World [3-0]
Alternate years

An in-depth historical study of art styles from 5000 B.C. to 325 A.D. *Prerequisites:* ART 2351 and ART 2352.

ART 3354 Renaissance and Baroque Art [3-0]
Alternate Years

This is an in-depth survey of the painting, sculpture, architecture and graphics of the Renaissance and Baroque periods. Focus will be on the artists, techniques and media and on social, historical and religious influences that affected the art of the 15th, 16th, 17th and 18th centuries in Europe.

ART 3361 Printmaking II [3-0]
Spring

Work in the lithographic printmaking process. Emphasis

on the planographic system. A minimum of 3 hours outside work per week is required. *Prerequisite:* ART 2361. \$4 laboratory fee.

ART 3362 Printmaking III [3-0]
Fall, Spring

Introduction to intaglio processes. A minimum of 3 hours outside work per week is required. *Prerequisite:* ART 2361. \$4 laboratory fee.

ART 3371 Ceramics II [3-0]
(Texas Common Course Number is ARTS 2347.)

Fall, Spring, Summer
Emphasis on basic wheel-thrown shapes and introduction to glaze calculation. A minimum of 3 hours outside assignments per week is required. *Prerequisite:* ART 2371. \$4 laboratory fee.

ART 3372 Ceramics III [3-0]
Fall, Spring, Summer

Advanced studio problems in ceramics. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 3371. \$4 laboratory fee.

ART 3381 Perception and Expression in Art I [3-0]

Fall, Spring, Summer
A course designed to strengthen visual perception and divergent thinking through visual and conceptual stimuli with primary emphasis on studio activities. *Prerequisite:* Junior standing.

ART 3382 Perception and Expression in Art II [3-0]

Spring and As Scheduled
Emphasis on further studio development in-depth. *Prerequisite:* ART 3381 or permission of instructor. Recommended for certification requirements.

ART 3383 Creative and Critical Thinking [3-0]
Fall

The course offers discussion and exercises in synectics, brainstorming and analytical thinking. A topology of creative behavior development is presented along with spatial exercises. Mini-workshops dealing with studio areas not regularly taught at this campus are offered. This may include serigraphy, fiber, textiles, photography and collograph. *Prerequisite:* for student teaching. *Prerequisite:* Junior standing.

ART 4193 Senior Exhibit [1-0]*Fall, Spring*

A one- or two-person studio show. *Prerequisite:* Senior standing.

ART 4301 Philosophies of Art [3-0]*As Scheduled*

A study of the relationship of art to philosophy. A study of the various theories of art and of the philosophical presuppositions regarding being, knowledge and value inherent in these theories.

Prerequisite: Junior standing.

ART 4303 Jewelry/Metalworking IV [3-0]*As Scheduled*

Personal development in metals/jewelry. A minimum of 3 hours of outside assignments per week is required. (May be repeated for a total of 12 hours credit). \$4 laboratory fee.

ART 4311 Advanced Drawing [3-0]*As Scheduled*

Topics covered include pastel portraiture, advanced figure drawing and other advanced drawing problems. (May be repeated for a total of 12 hours credit.) A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* ART 1311 and ART 2312, or consent of instructor. \$4 laboratory fee.

ART 4321 Painting IV [3-0]*As Scheduled*

Advanced study in painting. A minimum of 3 hours outside work is required. (May be repeated for a total of 12 hours credit.) *Prerequisite:* ART 3321. \$4 laboratory fee.

ART 4333 Graphic Design I [3-0]*Spring*

A systematic approach to design problem solving, with a series of studio assignments and critiques relating directly to two- and three-dimensional graphic design. The course offers the opportunity to develop creative and technical ability by the production of professional assignments. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 3333. \$4 laboratory fee.

ART 4334 Graphic Design II [3-0]*Fall*

A series of advanced problems and intensive critiques relating to graphic design to condition students to

think in terms of "client-designer" relationships in simulated working conditions. Assignments criticized by professional standards will ideally result in portfolio pieces. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* ART 4333. \$4 laboratory fee.

ART 4337 Digital Photography [3-0]*Fall, Spring*

An introduction to the study of digital image processing using Adobe Photoshop as an editing tool, linking the Kodak digital camera directly to the small portfolio of computer-printed photographs addressing both the technical and aesthetic issues of this medium. A minimum of 3 hours of outside assignments per week is required.

ART 4338 Web Page Design [3-0]*Summer*

Learning current Web page design software, students will design actual Web pages using a variety of electronics effects. The course will focus on the design possibilities. A minimum of 3 hours of outside assignments per week is required. *Prerequisites:* 24 hours of art completed. \$4 laboratory fee.

ART 4339 Portfolio [3-0]*Fall, Spring*

This course focuses on the compiling of the professional portfolio. Students will prepare and organize work into a presentable dossier for use in their future graphic design career. A minimum of 3 hours of outside assignments per week is required. *Prerequisite:* Senior level standing. \$4 laboratory fee.

ART 4341 Sculpture III [3-0]*Fall, Spring*

Continuation of the student's personal direction in sculpture. A minimum of 3 hours outside work per week is required. (May be repeated for a total of 12 hours credit.) *Prerequisite:* ART 3341. \$4 laboratory fee.

ART 4351 Latin American Art: Pre-Conquest [3-0]*Fall*

An in-depth historical study of the arts of Mexico, Central America and South America prior to the Spanish Conquest. *Prerequisite:* Junior standing.

ART 4352 Latin American Art: Post-Conquest [3-0]*Spring*

Mexican art under the Spanish influence is discussed from the Colonial period to the present. *Prerequisite:* Junior standing.

ART 4353 American Art [3-0]*As Scheduled*

History of the visual arts in the United States, 17th century to the present, including the art of the American Indian. *Prerequisites:* ART 2351 and ART 2352.

ART 4361 Printmaking IV [3-0]*Fall, Spring*

In-depth study in printmaking; the student may pursue previous printmaking interests, or move toward experimental goals. May be repeated for 12 hours credit. A minimum of 3 hours outside work is required. *Prerequisites:* ART 3361 or ART 3362. \$4 laboratory fee.

ART 4371 Ceramics IV [3-0]*Fall, Spring*

Continuation of Ceramics III. Student is 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 3 hours of outside assignments per week is required. *Prerequisite:* ART 3372. \$4 laboratory fee.

ART 4383 Art Curriculum [3-0]*Spring*

This course offers information about earning a living in the studio art field. Preparation of contracts regarding gallery agreements, studio administration and the acceptance of terms of sale for art goods are explained. Procedures involved in gallery exhibitions, teaching institutions and private businesses are discussed, along with wholesaling vs. retailing art work and tax laws relating to artists. *Prerequisite:* Junior standing.

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.

Prerequisite: ART 4391.

Astronomy

ASTR 1401 General Astronomy [3-3]*(Texas Common Course Number is PHYS 1411.)**Fall*

A study of basic concepts in astronomy and of the solar system. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. \$4 laboratory fee.

ASTR 1402 General Astronomy [3-3]*(Texas Common Course Number is PHYS 1412.)**Spring*

A study of the stellar universe. Telescopes and other instruments, including the planetarium, are used as an integral part of the course. *Prerequisite:* ASTR 1401. \$4 laboratory fee.

Bible

BIBL 1310 Old Testament Survey [3-0]*As Scheduled*

A survey of the history and literature of the Old Testament. Particular emphasis is placed upon the teachings concerning God, man, salvation and social relations; especially those teachings that deal with the preparation for the coming of Christ.

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.

BIBL 1312 Bible and Everyday Living [3-0]*As Scheduled*

A study of some aspects of the nature of man and of his relationship to Christ as studied in related Bible readings.

BIBL 1314 Acts of the Apostles [3-0]*As Scheduled*

An historical study of the beginning and extension of Christianity, based on the Book of Acts.

BIBL 2302 The Life and Letters of John [3-0]*As Scheduled*

A study of the life and works of John. A special emphasis is given to his gospel and epistles with a brief review of Revelation.

Biology

BIOL 1401 General Biology [3-3]*(Texas Common Course Number is BIOL 1411.)**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, evolution and the structure and function of bacteria, viruses, protozoa, algae, fungi and plants. *Credit Restriction:* Credit may be received in only one of BIOL 1401 or BIOL 1487. \$3 laboratory fee.

BIOL 1402 General Biology [3-3]*(Texas Common Course Number is BIOL 2401.)**Fall, Spring, Summer*

A continuation of Biology 1401. Topics include evolution and diversity of 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. *Prerequisite:* BIOL 1401. \$3 laboratory fee.

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, microbial genetics and a survey of the diversity of organisms. Open to students enrolled in the Honors Studies Program or by permission of the 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 permission of the instructor. *Credit Restriction:* Credit may be received in only one of BIOL 1402 or BIOL 1488. \$3 laboratory fee.

BIOL 2201 Special Problems in Biology [1-2]*As Scheduled*

Study of special topics in biology for freshman- and sophomore-level students. The course will involve the independent study of a specific problem through conferences and activities directed by the instructor. Student must receive approval of instructor for study of specific problem prior to registration.

BIOL 2305 Environmental Biology [3-3]*As Scheduled*

A consideration of the biological problems of population expansion, environmental destruction and resource conservation as they relate to man's past, present and future. \$3 laboratory fee.

BIOL 2401 Vertebrate Zoology [3-3]*As Scheduled*

A basic introductory course dealing with fundamental biological principles and concepts. Designed to acquaint the student with structure, physiology and life histories of representative vertebrate types. *Prerequisite:* BIOL 1401. \$4 laboratory fee.

BIOL 2402 Comparative Vertebrate Anatomy [3-3]*(Texas Common Course Number is BIOL 2428.)**As Scheduled*

Comparative studies of the morphological, embryological and physiological relationships among vertebrates, with inclusion of histological and paleontological information. *Prerequisite:* Consent of instructor. \$5 laboratory fee.

BIOL 2403 Anatomy and Physiology [3-3]*(Texas Common Course Number is BIOL 2401.)**Fall, Spring, Summer*

A study of the structure and function of the human body including cells, tissues and organs of the following systems: integumentary, skeletal, muscular, nervous system and special senses. *Prerequisite:* Consent of instructor. \$4 laboratory fee.

BIOL 2404 Anatomy and Physiology [3-3]

(Texas Common Course Number is 2402.)

Fall, Spring, Summer

A continuation of BIOL 2403. Includes endocrine, circulatory, respiratory, digestive, urinary and reproductive systems. Other topics include metabolism, acid-base balance, development and heredity.

Prerequisite: BIOL 2403. \$4 laboratory fee.

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 permission of instructor.

BIOL 3401 General Microbiology [3-3]

Fall, Spring

A general survey of the field of microbiology with emphasis on bacteria. Topics will include structure, growth, reproduction, metabolism, genetics and taxonomy of bacteria; a general survey of fungi, algae, protozoa and viruses and microbiology of soil, water, foods and industry. Laboratory work will include staining, growing, biochemistry, characterization and control of bacteria with a general survey of other microorganisms. *Prerequisites:* BIOL 1401 and BIOL 1402; CHEM 1301, CHEM 1101, CHEM 1302 and CHEM 1102. \$4 laboratory fee.

BIOL 3403 Medical Microbiology and Immunology [3-3]

Spring

A study of microorganisms that cause disease and immune responses of the host to these pathogens. Emphasis will be on principles of immunology and selected infectious disease processes. Laboratory exercises will include a study of basic serologic procedures and cultural characteristics of related pathogenic microorganisms. *Prerequisite:* BIOL 3401. \$4 laboratory fee.

BIOL 3405 Histology [3-3]

As Scheduled

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:* 12 hours of biology including 4 hours from BIOL 2401, BIOL 2402 or BIOL 2403. \$4 laboratory fee.

BIOL 3407 Comparative Embryology [3-3]

As Scheduled

Developmental studies from the zygote through embryological stages (chiefly concerned with amphibians, birds and mammals). *Prerequisites:* 9 hours of biology, including 4 hours from BIOL 2401, BIOL 2402 or BIOL 2403. BIOL 3413 recommended. \$4 laboratory fee.

BIOL 3408 Plant Morphology [3-3]

As Scheduled

A study of the morphology, development and relationships of fungi, algae, liverworts, mosses, ferns, gymnosperms and angiosperms. Particular attention is given to the evolution of these groups. *Prerequisite:* 9 hours of biology, including BIOL 1402. \$4 laboratory fee.

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. Field work. *Prerequisite:* 12 hours of biology. \$4 laboratory fee.

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. \$4 laboratory fee.

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:* 12 hours of biology, including 4 hours from BIOL 2401, BIOL 2402 or BIOL 2403 and 8 hours of chemistry. \$5 laboratory fee.

BIOL 3412 Cell Biology [3-3]*As Scheduled*

A study of cell structure and function with emphasis on bioenergetics, membranes, genes and genetic control, cell division and its regulation and cellular differentiation. *Prerequisites:* BIOL 1401 and BIOL 1402; CHEM 2102 and CHEM 2302. \$4 laboratory fee.

BIOL 3413 Genetics [3-3]*Fall, Spring*

Introductory lectures and laboratories in classical genetics. Topics will include Mendelian genetics, cell mechanics, sex determination, sex linkage, DNA structure and function, genetic linkage, crossing over, gene mapping, mutation, regulation of gene expression, chromosomal variations, population genetics and evolution. *Prerequisites:* BIOL 1401 and BIOL 1402; CHEM 1301, CHEM 1101, CHEM 1302 and CHEM 1102. \$5 laboratory fee.

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:* 6 hours of biology and junior standing. \$4 laboratory fee.

BIOL 3415 Introduction to Molecular Biology [3-3]*As Scheduled*

An introduction to the structure and function of biological macromolecules. Topics include structure of nucleic acids and proteins, DNA replication and repair, transcription, translation, bacteriophages, mobile genetic elements, genetic engineering and gene regulation. *Prerequisites:* BIOL 1401 and BIOL 1402; CHEM 1301, CHEM 1101, CHEM 1302 and CHEM 1102.

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 only by permission.

BIOL 4201 Biology Problems [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. Problem is chosen

by the student with the approval of the instructor prior to registration. *Prerequisite:* Major in biology with at least junior standing. \$4 laboratory fee.

BIOL 4202 Biology Problems [1-2]*As Scheduled*

A continuation of BIOL 4201. *Prerequisite:* BIOL 4201. \$4 laboratory fee.

BIOL 4303 Mammalogy [2-3]*Spring*

A study of anatomy, evolution, distribution, systematics, ecology and physiology of mammals of North America, with special emphasis on local forms. *Prerequisite:* 9 hours of biology. \$4 laboratory fee.

BIOL 4304 Ichthyology [2-3]*Fall*

A study of ecology, distribution, adaptations, physiology, systematics and evolution of freshwater and marine fishes, with an emphasis on local forms. Laboratories will stress identification and other practical applications of modern ichthyological techniques. *Prerequisite:* 9 hours of biology. \$4 laboratory fee.

BIOL 4305 Plant Physiology [3-3]*As Scheduled*

An introduction of the basic principles of the physiology, growth and development of plants. *Prerequisite:* 6 hours of biology. \$5 laboratory fee.

BIOL 4309 Herpetology [2-3]*Fall*

A study of the anatomy, evolution, distribution, systematics, ecology and physiology of amphibians and reptiles; primarily of North American species, with special emphasis on local forms. *Prerequisites:* 8 hours of introductory biology (1400-level) and BIOL 2401 or BIOL 2402. \$4 laboratory fee.

BIOL 4311 Ecological Physiology [2-3]*As Scheduled*

A comparative study of the physiological adaptations of vertebrate animals to their environments. Emphasis is placed on the physiological basis of animal distribution and evolution. *Prerequisite:* 12 hours of biology, including BIOL 2401 or BIOL 2402. \$4 laboratory fee.

BIOL 4314 Plant Taxonomy [3-3]*As Scheduled*

Identification of vascular plants, with emphasis on native flowering plants. *Prerequisite:* 9 hours of biology, including BIOL 1402. \$4 laboratory fee.

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:* 9 hours of biology (BIOL 3414 recommended) and junior standing. \$4 laboratory fee.

BIOL 4404 General Virology [3-3]

This is a comprehensive course covering aspects of human, animal and plant virology. The course emphasizes current research on the genome and replication of viruses, functions and regulations of viral genes, molecular mechanisms of virus-host and virus-vector interactions, and novel molecular control strategies. The course will also cover prions and several sub-viral pathogens including viroids, virusoids and satellite RNA. *Prerequisite:* BIOL 3401 or BIOL 3403. \$10 laboratory fee.

BIOL 4407 Animal Parasitology [3-3]*Spring*

Introduction to study of parasitic protozoa and worms (especially trematodes, cestodes, nematodes and acanthocephala). *Prerequisites:* 9 hours of biology, including 4 hours from BIOL 2401, BIOL 2402, BIOL 2403 or BIOL 3414, and junior standing. \$4 laboratory fee.

BIOL 4408 Plant Pathology [3-3]*As Scheduled*

An introductory course on the causes, nature and control of plant diseases. Emphasis will be given to diseases of plants of economic importance. *Prerequisite:* 6 hours of biology. \$4 laboratory fee.

BIOL 4410 Marine Botany [3-3]*As Scheduled*

A study of the common local marine flora including microscopic and macroscopic algae, sea grasses and terrestrial angiosperms. Students are expected to furnish their own transportation to field laboratory sessions at South Padre Island. *Prerequisite:* 9 hours of

biology, including BIOL 1402. \$4 laboratory fee.

BIOL 4412 Ornithology [3-3]*As Scheduled*

Principles of avian classification, morphology and ecology, including migration, distribution and relationships to man. Field work. *Prerequisite:* 9 hours of biology, including 4 hours from BIOL 2401, BIOL 2402 or BIOL 2403. \$4 laboratory fee.

BIOL 4414 Freshwater Macroinvertebrates [3-3]*As Scheduled*

A study of the systematics, evolution and ecology of freshwater insects, crustaceans and mollusks. Emphasis will be on local aquatic habitats. Laboratories will consist of field trips and identification of specimens. *Prerequisite:* 9 hours of biology. \$4 laboratory fee.

BIOL 4415 Entomology [3-3]*Spring*

An introduction to the study of insects and other arthropods of agricultural, medical and veterinary importance. Includes basic insect morphology, physiology, classification and pest management. Laboratory consists of insect identification supported by field trips. *Prerequisite:* BIOL 3414. \$5 laboratory fee.

BIOL 4416 Environmental Toxicology [3-3]*Fall*

A survey of interaction of environmental pollutants with living systems. Laboratory consists of toxicological evaluation of selected environmental chemicals. *Prerequisites:* BIOL 3412 and 6 hours of organic chemistry or biochemistry. \$5 laboratory fee.

BIOL 4417 Bacterial Genetics [3-3]

This course will cover bacterial genetics from both classical and molecular perspectives. Topics will include transcription, translation, mutagenesis, transduction, transformation, conjugation and transposition. The lab will include techniques related to those topics, and will include Northern blotting, DNA sequencing and the polymerase chain reaction. *Prerequisites:* BIOL 1401 and BIOL 1402, CHEM 1301, CHEM 1101, CHEM 1302, CHEM 1102 and BIOL 3415. BIOL 3401 recommended. \$20 laboratory fee.

BIOL 4418 Electron Microscopy [3-3]

This course will provide an opportunity to learn scanning and transmission electron microscopy. Topics

include the principles of electron microscopes, cell ultrastructure, specimen preparation, microtomy, immunocytochemistry, operation of electron microscopes, darkroom techniques and graphic arts. *Prerequisites:* BIOL 1401 and 1402, CHEM 1301 and 1101, and 2 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:* 9 hours of biology, including BIOL 1402. \$20 laboratory fee.

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, bankruptcy. *Prerequisite:* BLAW 3337.

BLAW 3339 Consumer Law [3-0]

Spring, alternate years

Study of federal and state consumer product laws with focus on both the consumers' rights and the responsibilities of the seller/manufacturer; regulation of advertising and marketing of consumer products; credit financing of consumer transactions. *Prerequisite:* BLAW 3337 or consent of instructor.

BLAW 3340 Legal Considerations of International Business

U.S. laws governing international business. The impact of foreign laws on business within the host country, including U.S. companies in that country. *Prerequisite:* BLAW 3337

BLAW 4331 Topics in Business Law

Each course will address a separate business law topic as determined by the instructor and based on student demand. Possible topics include real estate law, cyber law and entrepreneurial law. This course may be repeated for credit with different topics. *Prerequisite:* BLAW 3337

Chemistry

CHEM 1101 General Chemistry Lab I [0-3]

Fall, Spring, Summer

An introduction to basic laboratory techniques using experiments to understand chemical concepts of reactions, stoichiometry and titrations. *Prerequisite:* CHEM 1301; can be taken concurrently with CHEM 1301. \$4 laboratory fee.

CHEM 1102 General Chemistry Lab II [0-3]

Fall, Spring, Summer

A continuation of CHEM 1101 using more advanced laboratory techniques such as volumetric, gravimetric and spectrophotometric methods of analysis, and qualitative inorganic analysis to reinforce topics covered in CHEM 1302. *Prerequisite:* CHEM 1302; can be taken concurrently with CHEM 1302. \$4 laboratory fee.

CHEM 1300 Introductory Chemistry [3-0]

Fall, Spring

Designed for students with little or no chemistry background. It introduces basic vocabulary, fundamentals of chemical mathematics, scientific laws, chemical formulas and equations. This course will not satisfy a laboratory science requirement.

CHEM 1301 General Chemistry I [3-0]

(Texas Common Course Number is CHEM 1411.)

Fall, Spring, Summer

Fundamentals of atomic structure, electronic structure and periodic table, nomenclature, the stoichiometry reactions, gas laws, thermochemistry, chemical bonding, and structure and geometry of molecules.

Prerequisite: CHEM 1300 or one year of high school chemistry.

CHEM 1302 General Chemistry II [3-0]

(Texas Common Course Number is CHEM 1412.)

Fall, Spring, Summer

This course presents the properties of liquids and solids, solutions' acid-base theory, chemical kinetics, equilibrium, chemical thermodynamics, electrochemistry, nuclear chemistry and representative organic compounds. *Prerequisite:* CHEM 1301.

CHEM 2101 Analytical Chemistry Lab [0-3]

Fall

A laboratory hands-on experience in quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric, and electroanalytical methods. *Prerequisite/co-requisite:* CHEM 2301.

CHEM 2102 Organic Chemistry Lab I [0-3]

Fall, Spring, Summer

An introduction to organic synthesis. Fundamental techniques such as crystallization, distillation, extraction and chromatography are discussed and applied to the preparation of organic compounds. *Prerequisite:* CHEM 2302; can be taken concurrently with CHEM 2302. \$4 laboratory fee.

CHEM 2103 Organic Chemistry Lab II [0-3]

Fall, Spring, Summer

Syntheses are more advanced, with greater emphasis on aromatic compounds. Grignard and diazonium salt preparations are included. Compounds are characterized by spectroscopic techniques. *Prerequisite:* CHEM 2102. \$4 laboratory fee.

CHEM 2301 Analytical Chemistry [3-0]

Fall

An introduction to principles of quantitative inorganic analytical methods including gravimetric, titrimetric, colorimetric and electroanalytical methods. *Prerequisite:* CHEM 1302.

CHEM 2302 Organic Chemistry I [3-0]

Fall, Spring, Summer

An introduction to the fundamentals of organic chemistry. Study of covalent bonding, molecular structure, acid-base theory, conformational analysis and stereochemistry. Relations between structure and reactivity: functional groups and their interconversions. Mechanistic studies with emphasis on reactive

intermediates. *Prerequisite:* CHEM 1302.

CHEM 2303 Organic Chemistry II [3-0]

Fall, Spring, Summer

This course is a continuation of CHEM 2302 and includes an introduction to aromaticity and aromatic compounds. The study of functional groups and the mechanisms of their reactions is continued. Physical methods of structure determination: UV-Vis, IR and NMR. *Prerequisite:* CHEM 2302.

CHEM 3103 Biochemistry Lab [0-3]

Fall, Spring

Introduction to the application of various techniques such as column chromatography, electrophoresis to study macromolecules such as protein estimation, enzyme kinetics and chemistry of carbohydrate, lipids and nucleic acids. *Prerequisite:* CHEM 3303; can be taken concurrently with CHEM 3303. \$4 laboratory fee.

CHEM 3104 Physical Chemistry Lab I [0-3]

Fall

Experiments are designed to demonstrate and reinforce the concepts developed in physical chemistry lectures. Emphasis is given to error analysis and statistical treatment of data. *Prerequisite:* CHEM 3304; can be taken concurrently with CHEM 3304. \$4 laboratory fee.

CHEM 3105 Physical Chemistry Lab II [0-3]

Spring

This course is a continuation of CHEM 3104. Experiments are performed to reinforce concepts in quantum mechanics, spectroscopy and chemical kinetics. *Prerequisite:* CHEM 3305; can be taken concurrently with CHEM 3305. \$4 laboratory fee.

CHEM 3202 Inorganic Chemistry Lab [1-3]

Spring

Microscale synthesis and characterization of inorganic, organometallic, coordination and bioinorganic compounds employing advanced laboratory techniques. *Prerequisite:* CHEM 3301; can be taken concurrently with CHEM 3301. \$4 laboratory fee.

CHEM 3301 Inorganic Chemistry [3-0]

Spring

A descriptive study of modern topics in inorganic chemistry that includes periodicity, acid-base theories, structure, bonding and reactivity of inorganic compounds, and chemistry of nontransition elements

and their compounds. (Writing intensive.) *Prerequisite:* 12 hours of chemistry, including CHEM 2302.

CHEM 3303 Biochemistry [3-0]
Fall, Spring

A discussion of the structural and functional viewpoint of biological macromolecules including proteins, carbohydrates and nucleic acids and the techniques used in their study. The course material will also include study of energy yielding metabolic pathways such as glycolysis, the Krebs cycle, fatty acid oxidation and oxidative phosphorylation. *Prerequisite:* CHEM 2302.

CHEM 3304 Physical Chemistry I [3-0]
Fall

An introduction to the properties of gases, the kinetic molecular theory and the study of thermodynamics, including an in-depth coverage of the first, second and third laws of thermodynamics and equilibrium. Statistical mechanics is used in the development of energy related concepts. *Prerequisites:* MATH 1401 and MATH 1402, and 12 hours of chemistry.

CHEM 3305 Physical Chemistry II [3-0]
Spring

The second half of physical chemistry investigates concepts in quantum mechanics, group theory and symmetry, and spectroscopy. Studies of chemical kinetics and electrochemistry are also included. *Prerequisite:* CHEM 3304.

CHEM 3306 Polymer Science and Engineering [3-0]
Fall

A general introduction to the theories and industrial practices for polymeric materials. The course includes synthesis, physical characterization and structure-property relationships of polymers. Emphasis is given to industrially important polymers as materials. *Prerequisite:* CHEM 1302.

CHEM 4101 Chemistry Seminar [1-0]
Fall

An introduction to the use of current chemical literature and periodicals. Each student is expected to conduct an in-depth study of a chemical topic that will serve as a basis for a presentation in a seminar. Required of all chemistry majors. *Prerequisite:* Chemistry major with senior standing or permission of the instructor.

CHEM 4104 Instrumental Analysis Lab [0-3]
Spring

A laboratory hands-on experience in instrumental analysis. Includes application of modern instrumentation and scientific software in solving analytical problems. *Prerequisite/co-requisite:* CHEM 4304.

CHEM 4201 Chemistry Problems I [0-6]
Fall, Spring, Summer

A course adapted to the study of special topics in chemistry through research. Students are allowed to select the research problem through individual conferences with faculty members, who develop one- or two-semester research projects for the course. Students must have the approval of the instructor prior to registration. *Prerequisite:* Chemistry major with junior standing or permission of the instructor. \$4 laboratory fee.

CHEM 4202 Chemistry Problems II [0-6]
Fall, Spring, Summer

A continuation of CHEM 4201. *Prerequisite:* CHEM 4201. \$4 laboratory fee.

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]

The course is a continuation of CHEM 3303. This course reviews the mechanisms of biosynthesis of macromolecules, particularly amino acids, proteins, fatty acids, lipids, polysaccharides, purines, pyrimidines and nucleic acids. Emphasis will be given to how these processes are controlled and integrated with the metabolism of the cell and molecular basis of disorders related to intermediary metabolism. *Prerequisites:* CHEM 3103 and CHEM 3303.

CHEM 4303 Advanced Organic Chemistry [3-0]
Fall

The course describes the advanced organic synthetic methods and mechanisms and illustrations of their applications in the synthesis of biologically active molecules such as chiral medicinal drugs and insect pheromones. *Prerequisites:* CHEM 2302 and CHEM 2303. No lab required.

CHEM 4304 Instrumental Analysis [3-0]*Spring*

A study of principles of instrumental analysis measurements and techniques. Components and operation of basic and modern instrumentation will be covered. *Prerequisites:* CHEM 2301 and CHEM 2101.

CHEM 4378 Special Topics in Chemistry [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 4 credit hours is applicable to the degree requirement. *Prerequisite:* Chemistry major with junior standing.

Chinese

CHIN 1391 Beginning Chinese [3-0]*As Scheduled*

An introductory course in Chinese designed to teach basic knowledge of the Chinese language, including speaking, writing, listening and reading.

CHIN 1392 Beginning Chinese [3-0]*As Scheduled*

Continuation of CHIN 1391. An introductory course in Chinese designed to teach basic knowledge of the Chinese language, including speaking, writing, listening and reading.

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. *Prerequisite:* College mathematics or permission of department chair.

CIS 2308 Introduction to Programming with Visual Basic [3-0]*Fall, Spring*

Students will be introduced to developing business applications using Visual Basic. Topics include fundamentals Basic programming, Windows user interface design, Windows and Visual Basic controls, data controls, and integration with applications. *Prerequisite:* MATH 1321 OR MATH 1340 and computer literacy skills.

CIS 2310 COBOL Programming [3-0]*(Texas Common Course Number is COSC 1332.)**Fall, Spring*

A programming course designed to emphasize structured programming concepts using COBOL programming language. Concepts will be reinforced with programming exercises that include COBOL syntax, data and file structures, input and output devices, and operating systems facilities for support of batch programs. *Prerequisite:* C or better in any programming language course.

CIS 3300 Internship in CIS*Fall, Spring, Summer*

This course 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 Programming with Visual Basic

This course is a continuation of CIS 2308 using advanced features of Visual Basic for business applications. Students will develop applications such as payroll, accounts receivable, inventory, point of sale and online purchases. *Prerequisite:* C or better in CIS 2308.

CIS 3310 Advanced Programming Techniques

This course is a continuation of CIS 2310 and is designed to thoroughly familiarize the student with advanced design techniques, binary table searches, variable length record techniques and hashing. This course also includes the introduction to the basics of data structures needed for online retrieval, which include ordered lists, file structures, pointers and linkages, directories, memory management and data access methods.

CIS 3312 Introduction to Web Programming

A study of the concepts and principles of programming Web pages and delivery of business content on the Web using HTML, JavaScript, VBScript and other tools. Hands-on projects and exercises will be used to emphasize various tools and techniques used in Web programming.

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:* Two programming language courses with a C or better in each course.

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:* Two programming courses with a C or better in each course.

CIS 3338 Networking [3-0]

Fall, Spring

An introduction to the characteristics, feasibility and design of networks and distributed data processing. Focus is on the business and elementary technical aspects of distributed processing involving digital communication. The business aspects will include implementation strategies, security, control and selection of distributed data processing. Elementary technical aspects will include data communication technology, hardware configuration and application software. *Prerequisite:* 6 hours of CIS or CSCI above computer literacy or consent of department chair.

CIS 3380 Small Business Technology [3-0]

Fall, Spring

The purpose of this course is to study technology to efficiently manage a small business. Students will learn about faxes, microcomputers, printers, copiers, modems and small business networks. Students will also learn about small business accounting packages, including payroll, accounts receivable and accounts payable. Additional topics include desktop publishing and use of the Internet in small business. Each student will be required to complete a term project on an application or technology. *Prerequisites:* ACC 2421, ECO 1301 (or 3 hours of Economics) and MANA 3361.

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:* MANA 3361 and CIS 1301.

CIS 4308 Information Resource Management [3-0]*Fall, Spring*

Introduces the concept of resource management in information processing systems. The student is introduced to issues related to the management of an information system such as planning, organizing, controlling, evaluating and staffing an Information Center. Societal and technological issues related to managing an Information Center are discussed.

Prerequisites: MANA 3361 and 6 hours of CIS or CSCI above computer literacy.

CIS 4312 Application Development for E-commerce

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 4336 Systems Design and Development

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:* C or better in CIS 3335 and CIS 3336.

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 acquire skills in the use of universal precautions and infection control techniques. Recommended for pre-professional students interested in health professions. *Prerequisite:* 8 hours of biology.

CLSC 3227 Clinical Laboratory Methods [1-3]*Fall*

Lecture-laboratory course that introduces the student to the medical laboratory. Emphasizes appropriate laboratory studies for specific diseases, normal laboratory values and procedures for obtaining samples. Students are given the opportunity to perform waived and PPM lab studies. *Prerequisite:* PHAS ("C" or better).

CLSC 3301 Introduction to Clinical Laboratory Science [2-5]*Spring*

An introduction to the basic skills utilized in the clinical laboratory including specimen collection and processing, professional ethics, laboratory safety and routine examination of urine. Regulatory requirements for laboratories will also be introduced. Open to all interested students. *Prerequisites:* 8 hours of biology and 8 hours of chemistry.

CLSC 3410 Hematology I [3-3]*Fall*

Formation, function and identifying characteristics of the cellular elements of blood. Lecture and laboratory emphasize the enumeration, morphology and staining characteristics of normal and abnormal blood cells in healthy and diseased states. Coagulation physiology and methods of detecting defects will also be introduced. *Prerequisite:* Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 3420 Clinical Chemistry I [3-3]*Fall*

Studies in clinical chemistry with concentration on the physiology of normal and abnormal metabolism as they relate to those techniques commonly performed in general clinical chemistry laboratories. Basic clinical chemistry instrumentation, quality control and methodology will be emphasized along with a discussion of diagnostic applications. *Prerequisite:* Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 3513 Clinical Immunology and Immunoematology [4-3]*Fall*

Basic aspects of the immune response and its relationship to the diagnosis and treatment of disease. Lecture and laboratory stress the basic concepts of the human immune system as well as clinical applications

in the detection and diagnosis of disease processes by common serological tests including immunohematology applications. *Prerequisite:* Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 3530 Clinical Microbiology I [4-5]
Fall

Lecture and laboratory studies of human pathogens including common bacteria and parasites. Emphasis on staining, cultural and differential biochemical characteristics, as well as methods of isolation.

Prerequisite: Admission into the Clinical Laboratory Sciences Program or special approval.

CLSC 4112 Advanced Hematology [1-0]
Fall

Specialized procedures in hematology with an emphasis on body fluid analysis. *Prerequisites:* Admission into Clinical Laboratory Sciences Program and successful completion of CLSC 3410 and CLSC 4311.

CLSC 4115 Advanced Clinical Immunology [1-0]
Fall

Advanced concepts in clinical immunology with an emphasis on specialized tests including the HLA system. Abnormalities of the immune system will be emphasized. *Prerequisites:* Admission into the Clinical Laboratory Sciences Program and CLSC 3513.

CLSC 4144 Clinical Practicum V [0-0-6]
Fall

Clinical application of theory and techniques in affiliated institutions. *Prerequisites:* Admission into Clinical Laboratory Sciences Program and successful completion of on-campus coursework.

CLSC 4303 Medical Laboratory Leadership [3-0]
Fall

An introduction to the leadership roles and responsibilities of the clinical laboratory scientist in management, supervision and education as well as regulatory and legal aspects of laboratory medicine. *Prerequisite:* Admission into the Clinical Laboratory Sciences Program.

CLSC 4311 Clinical Hematology II [2-5]
Spring

Continuation of Hematology I with an emphasis on abnormal morphology and related disease states. Coagulation abnormalities and associated clinical conditions will also be covered as well as the more

specialized techniques in hematology and coagulation. *Prerequisites:* Admission into the Clinical Laboratory Sciences Program and CLSC 3410.

CLSC 4314 Advanced Immunohematology [2-5]
Spring

Lecture and laboratory stress the detection, identification and characterization of rarer and atypical antigens and antibodies, compatibility testing, blood component therapy and problem-solving techniques.

Prerequisites: Admission into the Clinical Laboratory Sciences Program and CLSC 3513.

CLSC 4322 Advanced Clinical Chemistry [3-0]
Summer

Discussion of special procedures and instrumentation in the clinical chemistry laboratory including toxicology, therapeutic drug monitoring and clinical correlation of biochemical results as well as problem-solving strategies. *Prerequisites:* Admission into the Clinical Laboratory Sciences Program and CLSC 4421.

CLSC 4340 Clinical Practicum I [1-0-12]
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 [1-0-12]
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 [1-0-12]
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 [1-0-12]
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 4421 Clinical Chemistry II [3-5]*Spring*

Continuation of Clinical Chemistry I with an emphasis on more advanced concepts in quality control, method evaluation and instrumentation as well as the associated normal and abnormal physiology and the appropriate clinical correlation of results. *Prerequisites:* Admission into the Clinical Laboratory Sciences Program and CLSC 3420.

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]*Fall, Spring, Summer*

This course is for the students to become aware of basic knowledge about American Sign Language and deaf people. Emphasis in the course is upon acquisition of both comprehension and production skills as upon 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.

COMD 1320 Intermediate Sign Language [3-0]*Fall, Spring, Summer*

This course is a continuation of Beginning Sign Language (COMD 1310) and emphasizes expansion and refinement of the fundamental comprehension and production skills covered in Beginning Sign Language, with the acquisition of additional functional

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grammatical structure and targeted lexical items. Spontaneous, interactive use of American Sign Language is stressed through discussion of deaf community and other activities being held by the deaf community. The students will continue study of information related to everyday life experiences of deaf Americans and deaf people anywhere in the world. *Prerequisite:* COMD 1310 or departmental approval.

COMD 2310 Introduction to Speech-Language Pathology [3-0]*Fall, Spring*

This course acquaints the prospective major with the profession of Speech-language pathology, which will include requirements for entering the profession and professional issues. The course will also introduce students to five basic types of communication disorders and their etiologies. *Prerequisites:* None.

COMD 2320 Phonetics [3-0]*Fall, Spring*

This course is an introduction to the International Phonetic Alphabet and application of this symbol system to analyze various languages. The course will acquaint students with the subset of phonetic symbols that are used to transcribe various dialects of General American English. This course is designed for Communication Disorders Majors and Education majors. The course will acquaint students with transcription techniques to analyze speech production. *Prerequisites:* None.

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:* COMD 2310, COMD 2320 and junior standing. *ASHA:* Basic human communication processes.

COMD 3315 Anatomy and Physiology of the Speech and Hearing Mechanism [3-0]*Fall, Spring*

A detailed study of the anatomical and physiological structure and function of the speech and hearing mechanism. *Prerequisites:* COMD 2310 and COMD 2320
ASHA: Basic human communication processes.

COMD 3330 Articulation Development and Disorders [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:* COMD 2310, COMD 2320, COMD 3310, COMD 3315.

COMD 3340 Audiology I [3-0]*Fall*

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:* COMD 2310, COMD 2320, COMD 3310, COMD 3315, COMD 3330 and junior standing. *ASHA:* Hearing disorders and hearing evaluation.

COMD 3350 Introduction to Speech Science*Fall, 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:* COMD 2310, 2320, 3310, 3315, 3330.

COMD 3360 Neuroanatomy and Physiology for Speech, Language, and Hearing*Fall, 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:* COMD 2310, 2320, 3310, 3315, 3330.

COMD 4310 Behavior Modification in Speech-Language Pathology [3-0]*Spring*

The course is a practical study of behavior management as it relates to and underlies speech and language intervention procedures. *Prerequisites:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360.

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:* COMD 2310, 2320, 3310, 3330, 3340, 3350, 3360.

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:* COMD 2310, 2320, 3310, 3330, 3340, 3350, 3360, 4330, 4360, 4365, 4310.

COMD 4355 Clinical Experience II [3-0]*Fall, Spring*

A second clinical experience that may include observation, volunteer work in schools or health care settings, or assisting in the therapy process. Clinical experiences are typically assigned in external sites but may include experience at The University of Texas-Pan American Speech and Hearing Clinic. Clinical experience hours do not meet the ASHA supervised clock hour requirements. *Prerequisite:* Minimum GPA 3.0 in communication disorders. Submission of clinical experience application by announced deadline. COMD 2310, COMD 2320, COMD 3310, COMD 3315, COMD 3320, COMD 3330, COMD 4310 and COMD 4350. *ASHA:* Speech disorders.

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:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360, 4330, 4360, 4365, 4310.

COMD 4365 Functional Speech Disorders*Fall*

The course is an introduction to functional disorders of speech, which may include those that impact articulation, fluency, and voice. *Prerequisites:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360.

**COMD 4370 Professional Report Writing
in Speech Language Pathology***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:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360, 4330, 4360, 4365, 4310.

COMD 4380 Clinical Problem Solving*Spring*

The course is an orientation to the basic principles fundamental to clinical practice Speech-Language Pathology. *Prerequisites:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360, 4330, 4360, 4365, 4310.

**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:* COMD 2310, 2320, 3310, 3315, 3330, 3340, 3350, 3360, 4330, 4360, 4365, 4310.

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:

CO = Communication Core
 CS = Communication Studies
 TH = Theatre/TV/Film
 JO = Journalism
 GE = General Education

Students must seek advisement from the Department of Communication on a regular basis to discover when specific courses are to be scheduled and taught.

COMM 1303 Presentational Speaking (CS) [3-0]*As Scheduled*

Instruction and practice in speech preparation and delivery. Includes audience analysis, selecting and developing the topic, drafting the speech outline,

arranging and intensifying the speech, use of visual aids and supporting materials, effective delivery techniques and speech evaluation. Stresses logical thinking as a basis for formulation of the communication message.

COMM 1305 Acting I (TH) [3-0]*As Scheduled*

Improvisational acting techniques and the application of these principles to stage, television and film.

COMM 1308 Photography [3-0]*As Scheduled*

This course is an introduction to the techniques of taking photographs and the process of developing, printing, enlarging, cropping and dodging. Journalism students cannot count these hours toward their major.

COMM 1310 Oral Interpretation (CS)(TH) [3-0]*As Scheduled*

Introduction and practice in the principles of speech as applied to the oral presentation of various literary forms. Includes prose and poetry, dramatic and duo-dramatic interpretation as well as storytelling.

COMM 1311 Technical Production I (TH) [3-0]*As Scheduled*

This course gives instruction and practice in the methods of construction, painting, rigging, shifting stage scenery and properties, as well as the application of these techniques to television production.

COMM 1312 Technical Production II (TH) [3-0]*As Scheduled*

This course is a continuation of COMM 1311. It consists of instruction and practical experience in production problems, including lighting and sound.

**COMM 1313 Fundamentals of Speech
Communication (CS) [3-0]***As Scheduled*

This class will provide an overview of traditional and non-traditional media with an emphasis on the history and evolution of the different media in society.

**COMM 1315 Survey of Radio/TV Broadcast/
Cable (JO) (TH) [3-0]***(Texas Common Course Number is COMM 1335.)**As Scheduled*

An overview of broadcasting and cablecasting; history, programming, regulations and financial structures.

Commercial, educational and public radio and TV, both in the United States and around the world, will be covered with an emphasis on helping the student be a better-informed and more critical consumer.

COMM 1387 Speech Communication (Honors Plan) (CS) [3-0]

As Scheduled

Theory and intensive application of various elements of the speech communication process. Through lecture, class discussion and active participation, students have the opportunity to develop skills in communication behavior including listening, interviewing, small group interaction, audiovisual aid use and public speaking. *Credit Restriction:* Credit may not be received for both COMM 1387 and COMM 1313.

COMM 1615 Summer Theatre Workshop (TH)

Designed to introduce beginning students to basic techniques of theatre staging through practical situations, this workshop requires students to participate in a series of productions for public viewing. Because of the intensive nature of this course, students are not allowed to take other studies or outside employment during their workshop enrollment period without permission of the instructor.

COMM 1616 Summer Television Workshop (JO) (TH)

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 (TH) (JO)

As Scheduled

This course is an introduction to television studio operations with emphasis on television production. It covers cameras, microphones, lights, setting and performers.

COMM 2306 Acting II (TH) [3-0]

As Scheduled

Intensive study of the techniques of building and developing a characterization.

COMM 2312 Theatre Appreciation (TH) (GE) [3-1]

As Scheduled

An introduction to the theatre, how to enjoy and understand plays, an appreciation and understanding of the various factors that make up a live theatre performance. Designed for non-majors.

COMM 2313 Readings in Dramatic Literature (TH) [3-0]

As Scheduled

Critical review and analysis of selected classic plays from Greek antiquity to the present time, designed to clarify the nature and major achievements of Western dramatic art. *Equivalent Course:* ENG 2313; may be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course.

COMM 2315 Interpersonal Communication (CS) [3-0]

As Scheduled

Instruction and activities in the principles of human communication and interaction. Includes self-concept, self-disclosure and risk, defensiveness, perception, empathy, semantics and abstraction, emotions and behavior, nonverbal communication, listening and feedback, relational communication, assertiveness and conflict management. *Previous Course Number:* COMM 1307; a student may receive credit in only one course.

COMM 2319 Make-Up (TH)

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)

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*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 2387 Theatre Appreciation (Honors Plan) (TH) [3-0]*As Scheduled*

An introduction to the theatre. Students are offered the opportunity to learn how to enjoy and understand plays, and are given the opportunity to gain an appreciation and understanding of the various factors that make up a live theatre performance. Designed for non-majors. *Credit Restriction:* Credit may be received for only one of COMM 2312 or COMM 2387. *Prerequisite:* Admission to Honors Program or by permission of instructor.

COMM 3301 Rhetoric of Television (CS) [3-0]*As Scheduled*

A consideration of television and its pervasive influence upon contemporary social, political and cultural institutions. Course explores the forms of persuasion embedded in television and methods by which these rhetorical structures affect human perceptual systems and resulting human behavior.

COMM 3302 Speech for Stage and Screen (TH) [3-0]*As Scheduled*

An intensive course in high quality diction for those planning to speak professionally on stage, TV, radio or film. Work on diction, foreign accents and dialects. Some voice work included.

COMM 3303 Writing for the Mass Media (JO)*As Scheduled*

This course will focus on the various writing techniques required for different media. Student must pass skill test of grammar, spelling, and punctuation.

COMM 3304 Advertising (JO) [3-0]*As Scheduled*

Principles of advertising as they are applied and used in radio, television, film, print media and theatre. Practice in writing advertising copy, layout and design.

COMM 3305 Copy Editing (JO) [3-0]*As Scheduled*

This course focuses on copy editing and headline writing using the Associated Press Style Manual as a guide.

COMM 3306 Feature Writing (JO) [3-0]*Spring*

Interpreting trends in reader appeal; analyzing feature story structure; finding ideas for gathering materials; writing and selling feature articles.

COMM 3308 Creative Drama (TH) [3-0]*As Scheduled*

A study of informal drama in its application to the elementary classroom. Development of creativity through original dramatizations by children. Of special interest to the elementary teacher.

COMM 3309 Scene Design (TH) [3-0]*As Scheduled*

This course teaches the principles of design as applied to modern stage and television production.

COMM 3310 Lighting for the Stage, Film and TV (TH) [3-0]*As Scheduled*

Problems of lighting design and execution as applied to the various media — stage, screen and television.

COMM 3311 Contemporary Drama (TH) [3-0]*As Scheduled*

A study of trends and movements in 20th century American, British and European drama with emphasis on works of major playwrights. *Equivalent Course:* ENG 3311; can be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. *Prerequisite:* 12 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 3314 Persuasive Communication (CS) [3-0]*As Scheduled*

Persuasive techniques and rhetorical principles as they apply to verbal and nonverbal communication where the goal is social influence. In-class speeches and

projects stress practical application of persuasive strategies. Persuasive characteristics of contemporary culture, structure and content of persuasive messages, source credibility, propaganda, ethics and role of attitudes, belief systems and values in persuasive communication.

COMM 3315 Communication in Human Relations (CS) [3-0]

As Scheduled

Application of the Speech Communication perspective as a dynamic process of human interaction. Significant issues and topics in interpersonal relationships, such as family communication, health communication, gender communication, social conflict and crisis communication, supervisory communication. May be repeated once for credit. *Prerequisite:* COMM 2315 or by permission of instructor.

COMM 3316 Intercultural Communication (CS) [3-0]

As Scheduled

Study of the symbolic and relativistic nature of culture and the resultant problems in attempting to communicate meaning across cultural lines.

COMM 3317 Speech for the Classroom Teacher (S) [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 3318 Great American Oratory (CS) [3-0]

As Scheduled

A study of the most influential speakers in American history including Jonathan Edwards, Daniel Webster, Abraham Lincoln, William Jennings Bryan, Henry Ward Beecher, Mark Twain, Billy Sunday, Clarence Darrow, Franklin D. Roosevelt, Frederick Douglas, Martin L. King, Ronald Reagan, Jesse Jackson and Cesar Chavez.

COMM 3319 Arts Management and Publicity (TH)

As Scheduled

This course teaches the basic principles of managing arts events or arts centers. It gives the student practical experience in publicity, release writing, box office management, program and poster production and public relations.

COMM 3323 World Drama (TH) [3-0]

As Scheduled

Study of trends and movements in dramatic literature from ancient Greece through World War I. Emphasis on the works of major playwrights. Equivalent Course: ENG 3323; can be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. *Prerequisite:* 12 hours of English.

COMM 3324 Cinematography/Videography (TH) [3-1]

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.

COMM 3325 Motion Picture History and Significance (TH) [3-0]

As Scheduled

Historical survey of motion pictures from 1890s to the present. Students will view, study and review major motion pictures from various periods, noting important periods, styles, genres and movements in the dramatic film (including foreign films and TV). Viewing lab arranged.

COMM 3327 Reporting I (JO) [3-0]

As Scheduled

An introduction to reporting focusing on writing articles in journalism style for print media, the course examines information gathering, interviewing techniques and reporting skills. Classes are conducted in computer lab rooms when available.

COMM 3328 Writing for Publication (JO) [3-0]

As Scheduled

This course stresses writing for a variety of publications, both print and electronic, with emphasis on in-depth research and writing.

COMM 3329 Specialized Reporting (JO)

As Scheduled

This course focuses on analytical and investigative reporting. It outlines the quantitative and qualitative techniques required to produce accurate and comprehensive assessments of social, political, and scientific issues. *Prerequisites:* COMM 3303, COMM 3327.

COMM 3330 Argumentation and Debate (CS) [3-0]*As Scheduled*

Instruction and practice in the principles of argumentation and debate. Includes philosophies and concepts, forms of argument, analysis by issues and logical form, evidence and reasoning, positions of advocacy, refutation and rebuttal, cross-examination, ethics of argument and persuasion, and communication strategies in contemporary society. *Previous Course Number:* COMM 2303; a student may receive credit for only one course.

COMM 3331 Principles of Interviewing (CS) [3-0]*As Scheduled*

Theory, application and selected practice of the interview process in a variety of situations. Students have the opportunity to develop basic skills in selection, appraisal, counseling, discipline, exit, persuasive and focus interviews; interviews in mass media contexts, in data analysis and in other important techniques. Ethical guidelines stressed throughout.

COMM 3332 Organizational Communication (CS) [3-0]*As Scheduled*

The study of the role of communication in organizational contexts. *Previous Course Number:* COMM 4306; a student may receive credit for only one course.

COMM 3333 Rhetorical and Communication Theory (CS) [3-0]*As Scheduled*

Comprehensive overview and analysis of the various significant theories of rhetoric and communication, with an historical grounding but emphasizing modern themes and perspectives. *Previous Course Number:* COMM 2320; a student may receive credit for only one course.

COMM 3334 Communication through Group Process (CS) [3-0]*As Scheduled*

Instruction and practice in group theory and technique. Includes principles and methods of discussion, interpersonal relations in groups, problem-solving and decision-making processes, conflict management in groups, sources and philosophies of group leadership, quality circles, preparation of agendas, rules of order, and committee procedures and regulations. *Previous Course Number:* COMM 2302; a student may receive credit for only one course.

COMM 3335 Advanced Public Speaking (CS) [3-0]*As Scheduled*

Theory and intensive application of various public speaking situations — informative, persuasive and special occasion speeches. Critical thinking, analysis, reasoning, support for assertions, humor and clear organization are stressed. Ethical communication and an audience-centered approach are central issues. *Prerequisite:* COMM 1313 or COMM 1303.

COMM 3341 Acting III (TH)*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)*As Scheduled*

This course consists of working with particular acting problems, such as characterization in the musical, individuation in group scenes, commercials, supporting partners, etc.

COMM 3350 Research in Communication (CO) [3-0]*As Scheduled*

Major methods of research used in the concentration areas of communication: speech communication, theatre arts 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 4303, COMM 4324 and COMM 4325; a student may receive credit for only one course.

COMM 3401 Broadcast News Writing (JO) [4-0]*Fall*

Development of skills and practice in the art of writing news for radio and television. Scripts will be written and evaluated as related to audience, medium and structure.

COMM 3403 Television News Production and Reporting (JO) [4-0]*Spring*

Methods of gathering facts, words and images, then developing them into professional video newscasts, including audio and video recording, editing, production, delivery and transmission, within the scope of standard electronic journalistic ethics and practices. *Prerequisite:* COMM 2404.

COMM 3413 Literature in Performance (CS) [4-0]*As Scheduled*

An advanced course in the theory and practice of the oral interpretation of literature stressing methods of assembling materials of various genres and individual and group performance. A rehearsal lab is required.
Prerequisites: COMM 1310 and/or permission of instructor.

COMM 3623 Professional Internship Cooperative Education — Theatre (TH)

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.

COMM 3625 Professional Internship Cooperative Education — Print Media (JO)

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.

COMM 3626 Professional Internship Cooperative Education — Radio-TV-Film (JO)

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.

COMM 3627 Professional Internship Cooperative Education — Advertising-Public Relations (JO)

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 work period. Credit will be determined on basis of employer's evaluation and student's written report.

COMM 4101 Practicum — Theatre-TV-Film (TH) (JO) [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)

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) [2-2]*As Scheduled*

Study, observation and practice in selecting scripts and working with problems, methods and techniques of direction and production.

COMM 4302 Directing II (TH) [1-4]*As Scheduled*

A continuation of COMM 4301 with stress upon student direction and production of plays and television programs.

COMM 4303 Special Topics (CS)*As Scheduled*

For the advanced undergraduate, this course may be taken more than once if the topic changes. The class is designed to give students an opportunity to study a special advanced theatre topic not required in the undergraduate curriculum.

COMM 4304 Scriptwriting for Stage and Screen (TH) [3-0]*As Scheduled*

Advanced-level course in the arts and crafts 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 4307 Contemporary Rhetoric of Social and Political Movements (CS) [3-0]*As Scheduled*

Rhetoric as an instrument of change within current political and social protest movements. Analysis of strategies and tactics of agitation and control. Study of

pamphlets, speeches, underground publications, files, music, nonverbal symbols and body rhetoric. Includes such movements as the Far Right, New Left, Black Power, Chicano movements and Women's Liberation.

COMM 4308 Special Problems in Rhetorical Criticism (CS) [3-0]

As Scheduled

Significant issues and topics in rhetorical criticism. Principles of criticism applied to political and social communication behavior. May be repeated once for credit.

COMM 4313 Media Law and Ethics (JO) [3-0]

As Scheduled

This course will cover freedom of the press, libel, invasion of privacy and the conflict between free press and fair trial. Media cases will also be examined as they relate to questions of ethics.

COMM 4314 Advanced Television/Film Production (JO) (TH) [3-0]

As Scheduled

Advanced-level course stressing the application of basic arts and media developed in COMM 2404 and making use of advanced students in directing, technical crafts, performance and scriptwriting. May be repeated for credit with new production.

COMM 4315 History of the Theatre I (TH) [3-0]

As Scheduled

A thorough study of the history of theatre from its origins until the end of the Jacobean era.

COMM 4316 History of the Theatre II (TH) [3-0]

As Scheduled

A thorough study of the history of theatre from the Restoration until the present.

COMM 4317 Children's Theatre Workshop (TH)

As Scheduled

This is an intensive workshop course in which students are responsible for all aspects of the production of a major dramatic work that will be produced for children and that will embody the principles of dramatic production in forms suitable for elementary school audiences.

COMM 4318 Theory and Styles of Acting (TH)

As Scheduled

This course covers techniques of period acting and exploration of major theories of acting techniques.

COMM 4319 Problems in Acting (TH)

As Scheduled

This course teaches acting techniques to adapt performance to varying situations such as large and small proscenium, film and television. It also includes preparation of audition material and problems in developing range of characterization.

COMM 4321 Public Relations (JO) [3-0]

As Scheduled

Planning and preparation of publicity materials for media, application of public relations techniques and clinical study of current public relations campaigns. Some laboratory work in the Department of Communication.

COMM 4322 Public Relations Writing (JO)

As Scheduled

This is an intensive writing course. Student will learn to research and write for a variety of formats such as news releases, backgrounds, and pitch letters.

Prerequisites: COMM 3303 or consent of instructor.

COMM 4326 Photojournalism (JO) [3-0]

As Scheduled

Principles and practices of photojournalism. Topics include news photography and interrelationship with text. Participation in campus publications is encouraged. Students must furnish 35mm camera and equipment.

Prerequisite: COMM 1408 or permission of instructor.

COMM 4327 Mass Communication and Society (JO) [3-0]

As Scheduled

This course will provide an overview of the relationship between the mass media and society from a historical perspective and will examine current trends such as the impact of media technology on society. The different theories of the press as well as theories of mass communication will also be examined.

COMM 4330 Communication Consulting and Training (CS) [3-0]

As Scheduled

Study of the consultant's role in planning and implementing organizational communication diagnosis and change. Factors affecting the consultant-client relationship as well as ethical considerations will be highlighted. In addition, methods, techniques and practice in communication training programs and workshops will be addressed.

**COMM 4331 Senior Synthesis Seminar
in Speech Communication (CS) [3-0]***As Scheduled*

Students are provided the opportunity to integrate principles, ideas and information covered in lower- and upper-division Speech Communication coursework and to apply theories, research methods and intervention techniques in various analytical and experimental situations. *Prerequisites:* COMM 1301 and 24 hours in Speech Communication, including 9 advanced hours.

COMM 4332 Media Publishing (JO) [3-0]*As Scheduled*

Computer production of a variety of print media publishing, including layout, design and writing.

COMM 4334 Communication Campaigns (JO) [3-0]*As Scheduled*

This course will cover the development of communication campaigns from the initiation of a situation analysis, research to final execution. Students will also learn to evaluate the effectiveness of campaigns. *Prerequisites:* COMM 3304 and/or COMM 4321 or consent of instructor.

**COMM 4335 Creative Strategies
and Media Planning (JO) [3-0]***As Scheduled*

This course will focus on the development of effective creative strategies based on solid research and clear objectives. Media planning, buying and placing will also be covered. *Prerequisites:* COMM 3304 or consent of instructor.

**COMM 4336 Applied Organizational
Communication (CS) [3-0]***As Scheduled*

Application of organizational communication theories and concepts within organizational contexts. *Prerequisite:* COMM 3332.

**COMM 4337 Professional Internship-Cooperative
Education - Communication Studies (CS)**

A planned program of half-time 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. May be repeated once for credit.

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**COMM 4417 Radio and Television Advertising
Production (JO) [3-3]***As Scheduled*

Application of principles of advertising to production of radio and television commercials. *Prerequisites:* COMM 2404 and COMM 3304.

COMM 4615 Summer Theatre Workshop (TH)

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, 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 Professional Internship-Cooperative
Education - Communication Studies**

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. *Previous Course Number:* COMM 3624; a student may receive credit for only one course.

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 1310 Fundamentals of Criminal Law [3-0]

(Texas Common Course Number is CRIJ 1310.)

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crime and penalties using Texas statutes as illustrations; criminal responsibility. *Previous Course Number:* CRIJ 2331; a student may receive credit in only one course.

CRIJ 1313 Juvenile Justice System [3-0]

(Texas Common Course Number is CRIJ 1313.)

An overview of the nature of juvenile delinquency; the theory and practice of juvenile courts; juvenile case law; juvenile crime prevention; treatment of juvenile offenders; juvenile justice system. *Previous Course Number:* CRIJ 2303; 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 2314 Criminal Investigation [3-0]

(Texas Common Course Number is CRIJ 2314.)

An introduction and analysis of current criminal investigation procedures; philosophy of the crime scene investigation; an advanced study of important areas involved in criminal investigation, such as proper handling of physical evidence, arrest, search and seizure, hearings and probable cause; a discussion of techniques involved in drug and narcotic investigations. *Previous Course Number:* CRIJ 2323; a student may receive credit in only one course.

CRIJ 2323 Legal Aspects of Law Enforcement [3-0]

(Texas Common Course Number is CRIJ 2323.)

Police authority; responsibilities; constitutional restraints; laws of arrest, search and seizure; police liability. *Previous Course Number:* CRIJ 2332; a student may receive credit in only one course.

CRIJ 2326 Police-Community Relations [3-0]

(Texas Common Course Number is CRIJ 2326.)

A study of the problems involving law enforcement agencies and the community; the philosophy of community action groups and boards; theories regarding police involvement in community projects and the principles and techniques used in establishing a proper law enforcement-community relationship; principles and techniques of crime prevention and various approaches to crime prevention programs. *Previous Course Number:* CRIJ 2304; 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 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 Techniques of Interviewing [3-0]

Addresses techniques and interaction involved in the face-to-face interview; knowledge of behavioral reactions; development of an awareness of likely responses to the behavior of the interviewer; and interview techniques for pre-sentence investigations, classification, supervision and related correctional tasks.

CRIJ 3345 Correctional Administration [3-0]

Fundamental concepts of management, organization and administration as specifically applicable to correctional institutions, field services and community-based corrections.

CRIJ 4311 Police Organization and Administration [3-0]

In-depth discussion of organizational and administrative theory; comparative discussion of philosophies utilized in business and public administration with potential relationships to police organizations; methodology of societal trends affecting criminal justice administration.

CRIJ 4312 Principles of Law Enforcement Supervision [3-0]

An examination of the principles involved in law enforcement supervision; principles of leadership in dealing with people; psychology involved in handling grievances and in building morale; duties and responsibilities of command-level personnel; law enforcement budgeting procedures, supervisory problems and responsibilities relating to discipline and internal affairs investigations.

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 4341 Correctional Casework and Counseling [3-0]

Examines the role and techniques of casework in corrections with emphasis on the integration of casework and counseling responsibilities and procedures. Includes examination of therapeutic techniques and processes in various correctional settings and the study of service delivery programs tailored to the specific needs of correctional clients. *Previous Course Number:* CRIJ 4441; a student may receive credit in only one course.

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 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 4464 Field Internship Experience [4-0]

Three hours per week learning job interview techniques and résumé writing. 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; a student may receive credit in only one course.

CRIJ 4399 Criminal Justice System: Capstone

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:* CRIJ 1301, 1306, 2314, 2328, 3303, and 3304.

Computer Science

**CSCI 1201 Introduction to Computer and
Information Technology [2-0]**

Fall, Spring, Summer

A computer literacy course to develop awareness of the expanding role of computer and information technology and to provide knowledge and skills related to personal and social uses of computers. Topics include applications of computers, societal and ethical issues involving computers, history, the Internet, packaged software, and hardware and software terminology. Assignments will be given to provide hands-on experience in personal software packages and information networks. Students with limited or no computer experience are advised to enroll in CSCI 1300.

**CSCI 1300 Foundations of Modern
Information Technology [3-0]**

Fall, Spring, Summer

The course presents the foundations of computer and information technology related to its expanding role in communicating, solving problems, and acquiring information in all aspects of society. Knowledge and skills related to personal and professional uses of personal computers and information networks will be developed along with the critical thinking skills necessary to evaluate and learn new technologies as they become available. Topics include applications of computers, limitations and potentials of information technology, societal ethical issues involving computers, history, and hardware and software terminology. Assignments will be given to provide hands-on experience in personal software packages and information networks.

CSCI 1380 Computer Science I [3-0]

Fall, Spring, Summer

An introduction to computer science and computer programming. The fundamentals of a high-level programming language will be introduced. Methods of problem solving, techniques of algorithmic development and concepts of structured programming will be emphasized. *Prerequisites:* CSCI 1300 or equivalent experience and grade of "C" or better in MATH 1340 or MATH 1321.

**CSCI 1381 Foundations of
Computer Science [3-0]**

Fall, Spring, Summer

A breadth-first examination of computer science that continues the introduction to the field of computer science first begun in CSCI 1380. Includes an introduction to the mathematical foundations of computing, computer architecture, binary representations, software engineering, social and ethical issues of a computerized society, and an overview of various computer science fields and topics. *Prerequisite:* CSCI 1380 or departmental permission.

**CSCI 2320 Computer Programming
in a Second Language [3-0]**

As Scheduled

Computer programming in a high-level programming language such as Ada, Modula-2, Java, LISP and PROLOG. May also cover two different languages, such as both LISP and PROLOG. Designed for students who already know how to program in another high-level language. May be repeated when languages change. *Prerequisite:* CSCI 1380 or CSCI 2325 or consent of instructor.

CSCI 2325 Survey of Elementary Scientific Programming [3-0]*As Scheduled*

An introduction to computer programming and problem solving in the Fortran language with special emphasis on problems from science and mathematics. *Prerequisites:* Concurrent enrollment in or grade of "C" or better in MATH 1340 or MATH 1321 and CSCI 1300 or equivalent experience.

CSCI 2330 C++ Programming [3-0]*As Scheduled*

Introduction to the programming language C++, covering the syntax and semantics of the language. Application areas include linked structures, file structures, text handling and object-oriented technology. Primary emphasis is on the PC environment, with secondary emphasis on UNIX and other operating system environments. This course introduces C++ as a second programming language, and assumes that the student has already had exposure to at least one other programming language. *Prerequisite:* Consent of instructor.

CSCI 2333 Computer Organization and Assembly Language [3-0]*Fall, Spring*

An introduction to computer organization, use of assembly language programming, basic instruction sets, arithmetic and logical operations, addressing modes and macro definition. Several computer programming projects are included. *Prerequisite:* CSCI 2380 or consent of instructor.

CSCI 2380 Computer Science II [3-0]*Fall, Spring*

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 1380 and CSCI 1381 with a grade of "C" or better.

CSCI 3300 Internship in Computer Science [3-0]

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. A maximum of 3 hours of credit from CSCI 3300 or CSCI 3390 can be used toward the computer science major. May be repeated once. *Prerequisite:* Upper-division standing, minimum 12 hours of computer science completed and approved by both the department and employer providing the practicum/internship experience.

CSCI 3326 Object Oriented Programming in Java

The Java programming language and environment will be introduced with an emphasis on object-oriented programming. Application areas will include Internet-based programming, applets, and HTML, and topics will include control structures, classes, methods, inheritance, Java libraries and packages. Object-oriented aspects will include graphics, GUI, exception handling, multithreads, multimedia and networking. *Prerequisites:* CSCI 1380 or consent of the instructor.

CSCI 3327 Object Oriented Programming in Visual Basic

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 consent of instructor.

CSCI 3330 Introduction to Unix [3-0]

An introduction to the UNIX operating system and variations such as Linux. The course will provide instruction in the UNIX user interface, discuss at a high level internal components of UNIX, including threads, multitasking and resource handling. The course will emphasize shell programming in scripting languages such as Tcl/Tk and Perl, network applications including the World Wide Web, and commonly used UNIX utilities. *Prerequisite:* CSCI 2330.

CSCI 3333 Algorithms and Data Structures [3-0]*Fall, Spring*

Continuation of data structures topics covered in CSCI 2380 along with advanced algorithms and algorithmic complexity. Topics covered include advanced searching and sorting algorithms, recursive algorithms, and implementations of structures and related algorithms

pertaining to advanced trees (including 2-3, 2-3-4, red-black and B-trees), graphs and networks. *Prerequisite:* CSCI 2380.

CSCI 3334 Systems Programming [3-0]

Fall, Spring

An introduction to the organization and structure of the major hardware components of computers, the design of assemblers, linkers and loaders, and the fundamental concepts of operating systems.

Prerequisites: CSCI 2333 and CSCI 2380.

CSCI 3336 Organization of Programming Languages [3-0]

As Scheduled

Introduction to the specification analysis and implementation of programming languages, including the runtime behavior, desirable features and limitations of various languages. *Prerequisites:* CSCI 2380 and programming experience in two high-level languages.

CSCI 3340 Software Engineering [3-0]

As Scheduled

A formal approach to the state-of-the-art techniques in software design and development. Provides the student with the opportunity to work on large projects in a group situation. *Prerequisite:* CSCI 2380.

CSCI 3350 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: MATH 3368; a student may receive credit in only one course. *Prerequisites:* MATH 1401; CSCI 1380 or CSCI 2325 or consent of the instructor.

CSCI 3390 Practicum in Computer Science [3-0]

As Scheduled

Practical experience in management of computer laboratories and administration of computer systems. Students will assist in the operation of computing facilities. Course will include a 1-hour seminar and 8 hours of practicum experience per week. May be taken once for credit toward computer science major or minor. A maximum of 3 hours of credit from CSCI 3300 or CSCI 3390 can be used toward the computer science major. May be repeated once. *Prerequisites:* Junior standing and 12 hours of computer science.

CSCI 4333 Database Design and Implementation [3-0]

As Scheduled

Study of logical (hierarchical, network, relational) and physical (sequential, indexed, relative) organization of databases. Database management systems and their features, querying databases, distributed databases and data compression. *Prerequisite:* CSCI 3333.

CSCI 4334 Operating Systems [3-0]

As Scheduled

Detailed study of operating system principles, including procedure activation, memory management, process management, resource allocation and protection.

Prerequisites: CSCI 3333 and CSCI 3334.

CSCI 4335 Computer Architecture [3-0]

As Scheduled

Computer organization and architecture of computer systems, basic logic design, coding and micro-programming. *Prerequisites:* CSCI 2333 and CSCI 3333.

CSCI 4341 Topics in Computer Science [3-0]

As Scheduled

Topics or problems in Computer Science; subject matter changes from semester to semester. May be repeated for credit as topic varies. *Prerequisite:* Consent of instructor.

CSCI 4345 Computer Networks [3-0]

As Scheduled

An introduction to data communication topics, including data transmission, encoding, data link control, switching, network topologies, protocols, internetworking and data security. Examples of existing networks and network architectures are studied. *Prerequisite:* CSCI 4334, CSCI 4335 or consent of instructor.

CSCI 4350 Artificial Intelligence [3-0]

As Scheduled

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 Ada. *Prerequisite:* CSCI 3333.

CSCI 4360 Computer Graphics and Interactive Systems [3-0]

As Scheduled

A study of the representation and display of graphical information including the design and analysis of interactive systems. *Prerequisite:* CSCI 3333 or consent of instructor.

CSCI 4390 Senior Project

As Scheduled

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 and consent of instructor.

DANCE

DANC 1201 Dance Improvisation

Exploration of dance elements and design through creative problem solving and guided experiences. Must be registered concurrently in any dance technique course.

DANC 2110 Tap Dance I

Introduction to tap dance technique and styles. *Prerequisite:* Permission of instructor. May be repeated for credit.

DANC 2112 Dance Performance: Beginning/Intermediate

Introduction to dance performance participation and techniques. Must be registered concurrently in any dance technique course. *Prerequisite:* Instructor permission. May be repeated for credit.

DANC 2120 Jazz Dance I

Introduction to jazz dance technique and styles. *Prerequisite:* Permission of instructor. May be repeated for credit.

DANC 2130 Dance Technique: Special Topics I

Intensive study in dance technique; study with guest artists. *Prerequisite:* Instructor permission. May be repeated for credit as topics change.

DANC 2144 Ballet Technique: Pointe I

Instruction in Pointe technique. *Prerequisite:* Grade of B or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit.

DANC 2203 Music for Dancers

Introduction to musical elements as they relate to dance technique, performance, and instruction. Musical forms, historical periods, and composers.

DANC 2241 Ballet I: Primary Technique

Study of fundamentals of ballet technique for primary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2242 Ballet I: Secondary Technique

Study of fundamentals of ballet technique for secondary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2245 Modern Dance I: Primary Technique

Study of fundamentals of modern dance technique for primary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2246 Modern Dance I: Secondary Technique

Study of fundamentals of Modern technique for secondary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2249 Mexican Dance I: Primary Technique

Study of fundamentals of Mexican dance technique for primary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2250 Mexican Dance I: Secondary Technique

Study of fundamentals of Mexican dance technique for secondary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2253 Spanish Dance I: Primary Technique

Study of fundamentals of Spanish dance technique for primary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2254 Spanish Dance I: Secondary Technique

Study of fundamentals of Spanish dance technique for secondary technique area. *Prerequisite:* Permission of Instructor. May be repeated for credit.

DANC 2323 Dance Appreciation [3-0]

As Scheduled

An introduction to theatrical dance, including ballet, modern dance, post-modern dance and Spanish dance. How to understand and enjoy dance, an appreciation and understanding of Western dance performance

forms. (Fulfills General Education Requirements for Fine Arts; see page 91-93 for details.)

DANC 3110 Tap Dance II

Continuation of DANC 2110. *Prerequisite:* Grade of B or better in DANC 2110 or permission of instructor. May be repeated for credit.

DANC 3112 Dance Performance: Intermediate/Advanced

Intermediate/advanced dance performance techniques. Must be registered concurrently in any dance technique course. *Prerequisite:* Instructor permission. May be repeated for credit.

DANC 3120 Jazz Dance II

Continuation of DANC 2120. *Prerequisite:* Grade of B or better in DANC 2120 or permission of instructor. May be repeated for credit.

DANC 3130 Dance Technique: Special Topics II

Intensive study in advanced dance technique; study with guest artists. *Prerequisite:* Instructor permission. May be repeated for credit as topics change.

DANC 3143 Ballet Technique: Variations

Focus on ballet repertory, including classical variations and contemporary styles and dance works. *Prerequisite:* Grade of B or better in DANC 2241 or 2242 or permission of instructor. May be repeated for credit as repertory changes.

DANC 3144 Ballet Technique: Pointe II

Instruction in advanced Pointe technique. *Prerequisite:* Grade of B or better in DANC 2144 or permission of instructor. May be repeated for credit.

DANC 3202 Choreography I

Investigation of compositional structures, motif, and motif development, space, dynamics, and rhythm as choreographic tools in dance making, leading to production of original dance work for formal/informal presentation. *Prerequisite:* DANC 1201.

DANC 3241 Ballet II: Primary Technique

Continuing study of fundamentals of ballet technique for primary technique area. *Prerequisite:* Grade of B or better in DANC 2241 or permission of instructor. May be repeated for credit.

DANC 3242 Ballet II: Secondary Technique

Continuing study of fundamentals of ballet technique for secondary technique area. *Prerequisite:* Grade of B or better in DANC 2242 or permission of instructor. May be repeated for credit.

DANC 3245 Modern Dance II: Primary Technique

Continuing study of fundamentals of modern dance technique for primary technique area. *Prerequisite:* Grade of B or better in DANC 2245 or permission of instructor. May be repeated for credit.

DANC 3246 Modern Dance II: Secondary Technique

Continuing study of fundamentals of modern dance technique for secondary technique area. *Prerequisite:* Grade of B or better in DANC 2246 or permission of instructor. May be repeated for credit.

DANC 3249 Mexican Dance II: Primary Technique

Continuing study of fundamentals of Mexican dance technique for primary dance technique. *Prerequisite:* Grade of B or better in DANC 2249 or permission of instructor. May be repeated for credit.

DANC 3250 Mexican Dance II: Secondary Technique

Continuing study of fundamentals of Mexican dance technique for secondary dance technique area. *Prerequisite:* Grade of B or better in DANC 2250 or permission of instructor. May be repeated for credit.

DANC 3253 Spanish Dance II: Primary Technique

Continuing study of fundamentals of Spanish dance technique for primary technique area. *Prerequisite:* Grade of B or better in DANC 2253 or permission of instructor. May be repeated for credit.

DANC 3254 Spanish Dance II: Secondary Technique

Continuing study of fundamentals of Spanish dance technique for secondary technique area. *Prerequisite:* Grade of B or better in DANC 2254 or permission of instructor. May be repeated for credit.

DANC 3309 Dance History I

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.

Continuing study of evolution of dance forms, viewed in their cultural and societal contexts from the 1800s to the present. *Prerequisite:* DANC 3309.

DANC 3311 Dance Production

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

Orientation to historical and contemporary dance philosophies; critical analysis of choreography and dance performance. *Prerequisite:* DANC 3310.

DANC 3313 World Dance

Inquiry into dance forms and cultural contexts in diverse world cultures. *Prerequisite:* DANC 3310.

DANC 3320 Dance Science

Fundamentals of physiology, kinesiology, biomechanics, physical conditioning, and injury prevention as they apply to dance techniques and training. *Prerequisite:* BIOL 2403 and BIOL 2404.

DANC 4102 Senior Project

The production of senior choreographic work or research project for formal presentation. *Prerequisite:* Instructor permission and DANC 4202.

DANC 4202 Choreography II

Study of space use, group design, and emotional content in dance making, leading to the production of original dance work for formal/informal presentation. *Prerequisite:* DANC 3202.

DANC 4241 Ballet III: Primary Technique

Continuing study of ballet technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3241 or permission of instructor. May be repeated for credit.

DANC 4242 Ballet III: Secondary Technique

Continuing study of ballet technique with a strong emphasis on performing skills and styles for secondary technique area. *Prerequisite:* Grade of B or better in DANC 3242 or permission of instructor. May be repeated for credit.

DANC 4245 Modern Dance III: Primary Technique

Continuing study of modern dance technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3245 or permission of instructor. May be repeated for credit.

DANC 4246 Modern Dance III: Secondary Technique

Continuing study of modern dance technique with a strong emphasis on performing skills and styles for secondary technique area. *Prerequisite:* Grade of B or better in DANC 3246 or permission of instructor. May be repeated for credit.

DANC 4249 Mexican Dance III: Primary Technique

Continuing study of Mexican dance technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3249 or permission of instructor. May be repeated for credit.

DANC 4250 Mexican Dance II: Secondary Technique

Continuing study of Mexican dance technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3250 or permission of instructor. May be repeated for credit.

DANC 4253 Spanish Dance III: Primary Technique

Continuing study of Spanish dance technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3253 or permission of instructor. May be repeated for credit.

DANC 4254 Spanish Dance III: Secondary Technique

Continuing study of Spanish dance technique with a strong emphasis on performing skills and styles for primary technique area. *Prerequisite:* Grade of B or better in DANC 3253 or permission of instructor. May be repeated for credit.

DANC 4310 Dance Theory: Ballet, Modern, Jazz

Technical and aesthetic theories and practices related to the training of dancers in ballet, jazz dance, and modern dance idioms. *Prerequisite:* Credit for any 3000 level technique class.

DANC 4311 Dance Theory: Folk

Exploration of theories and practice in folk dances as they relate to diverse world cultures. *Prerequisite:* Credit for any 3000 level technique class.

DANC 4312 Dance Theory: Children's Dance

Technical and aesthetic theories and practices related to fashioning developmentally appropriate dance experiences for children. *Prerequisite:* Credit for any 3000 level technique class.

EDUD 4313 Dance in the Public Schools

Field-based experiences in program planning for dance in secondary schools, including unit instruction, lesson planning, class organization, and materials sources. Laboratory experiences to be arranged. *Prerequisites:* DANC 4310 or DANC 4311 or DANC 4312; EDCI 4301 and EDHS 3305.

Dietetics

DIET 2351 Introduction to Clinical Nutrition [3]

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 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 3353 Advanced Nutrition [3-0]

Fall

Study of biological, physiological, sociological and environmental aspects of nutrition science. Controversial issues in nutrition are examined. *Prerequisites:* CHEM 3403 or concurrent enrollment, HRP 2351, BIOL 2403 and admission to the Coordinated Program in Dietetics.

DIET 3354 Food Systems Management [3-0]

Spring

Organization and management of a food service system and basic operational subsystems (procurement, inventory, production, distribution, sanitation and fiscal control). *Prerequisites:* DIET 3452, DIET 3353 and DIET 3356

DIET 3356 Experimental Foods [2-3]

Fall

Investigation of chemical, physical and nutritional properties of foods and additives during food preparation. Study of food modifications necessary for

diet therapy; consideration of cultural preferences.

Prerequisites: DIET 2352, CHEM 2302 and admission to the Coordinated Program in Dietetics.

DIET 3357 Medical Nutrition Therapy [3-0]

Fall

Introduction to the concepts of providing nutritional care to individuals. Topics include nutritional assessment procedures (anthropometrics, biochemical, clinical and dietary) nutrition care plan, medical records including problem-oriented medical record, basic principles of interviewing and counseling, diabetic and renal calculations, total parenteral nutrition (TPN) and tube feeding methods, and use of computers for dietary analysis of intakes. *Prerequisites:* DIET 3452, DIET 3353 and DIET 3356.

DIET 3452 Quantity Foods Production [3-0-6]

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. 8 hours clinical experience per week. *Prerequisites:* DIET 2352, BIOL 3401, concurrent enrollment in DIET 3353 and DIET 3356, 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. 18 hours clinical experience per week. *Prerequisites:* DIET 3452, DIET 3353 and DIET 3356, each with a minimum grade of "C," and concurrent enrollment in DIET 3354.

DIET 4257 Seminar 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.

DIET 4358 Communication Skills in Dietetics [3-0]

Fall

Study of the major components of communication, interviewing, counseling, behavior modification, group

process, delivery of oral presentations and workshops, learning and motivation. *Prerequisites:* DIET 3354, DIET 3655, DIET 3357 and DIET 4351.

DIET 4259 Community and Life Cycle Nutrition [2-0]

Spring

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). *Prerequisites:* DIET 4258 and DIET 4852, and concurrent enrollment in DIET 4455.

DIET 3358 Medical Nutrition Therapy II [3-0]

Spring

Pathophysiological effect of disease on humans and rationale for diet therapy. Development of ability to translate dietary prescription into meal plans that will satisfy nutritional, emotional and cultural needs of people. *Prerequisites:* DIET 3354, DIET 3655 and DIET 3357.

DIET 4455 Community Nutrition Practicum [0-0-12]

Spring

Survey of major problems arising from food habits of population groups, including the study of the Mexican-American culture. Techniques for teaching effective nutrition to groups. Clinical experience includes observation and participation with selected community agencies and schools. 16 hours clinical experience per week for 11 weeks. *Prerequisites:* DIET 4852 and DIET 4351, and concurrent enrollment in DIET 4259.

DIET 4456 General Dietetics Practicum [0-0-9]

Spring

Integration of nutritional care and dietetic service into various systems of health care, food systems management or clinical nutrition. Under close supervision, students will assume the role of the generalist dietitian. 32 hours clinical experience per week for four weeks. *Prerequisites:* DIET 4258 and DIET 4852.

DIET 4852 Clinical Nutrition Practicum [0-24]

Fall

An introduction to the role of the clinical dietitian in the health care environment. Selected problems and clinical experiences directly correlated to DIET 4351. 24 hours clinical experience per week. *Prerequisites:* DIET 3354, DIET 3655.

Economics

ECON 1301 Introduction to Economics [3-0]

(Texas Common Course Number is ECON 1301.)

As Scheduled

Economics for students who have active interests in fields other than business administration or economics. Primary emphasis is given to the study of man in relation to his economic environment. Students will have the opportunity to gain an understanding of the capitalistic system.

ECON 1387 Introduction to Economics (Honors Plan) [3-0]

As Scheduled

The principles of economics are studied with primary emphasis on man in relation to his economic environment. Students will have the opportunity to gain knowledge of the purpose, functions and results of a market system, as well as an understanding of current economic problems. *Credit Restriction:* Credit may be received in only one of ECO 1301 or ECO 1387.

Prerequisites: MATH 1334 or satisfactory ACT placement, admission to Honors Studies or by invitation.

ECON 2301 Principles of Economics I [3-0]

(Texas Common Course Number is ECON 2301.)

As Scheduled

This course provides an introduction to the basic macroeconomic concepts of aggregate supply and aggregate demand, as well as income determination. Topics covered include money and banking, unemployment, inflation, international economics and comparative economic systems.

ECON 2302 Principles of Economics II [3-0]

(Texas Common Course Number is 2302.)

As Scheduled

This course studies the basic microeconomic concepts of consumer demand and firm supply and provides an analysis of factor markets and market structures. Topics covered include problems of resource allocation and economic efficiency in the market economy.

ECON 3300 Internship in Economics [3-0]

As Scheduled

This course 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.

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:* ECO 2301 and ECO 2302.

ECON 3341 Econometrics

This course studies standard regression procedures of parameter estimation 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. *Prerequisite:* ECON 2301, ECON 2302, and MATH 1322 or QUMT 2340

ECON 3342 Business and Economics Forecasting

This course studies forecasting techniques as they apply to finance and economics. The course graphical analysis, modeling and forecasting trends, seasonality adjustment, stationarity, MA, AR, ARMA, ARIMA, unit roots, forecasting with regression models, and forecast evaluation. *Prerequisite:* ECON 2301, ECON 2302, and MATH 1322 or QUMT 2340.

ECON 3351 Macroeconomic Theory [3-0]
As Scheduled

This course provides an analysis of the construction, character and operational uses of the macroeconomic models of classical, Keynesian, monetarist and Neo-Classical schools. Applications of the foregoing models to problems of inflation, unemployment, interest rates and investment in the United States economy are emphasized. *Prerequisites:* ECO 2301 and ECO 2302.

ECON 3352 Microeconomic Theory [3-0]
As Scheduled

This course provides an in-depth study of the theory of

consumer demand and the theory of the firm. Supply and demand analysis, distribution theory and imperfect competition models are also covered.

Prerequisites: ECO 2301 and ECO 2302.

ECON 3353 International Trade [3-0]
As Scheduled

The mechanism of international trade and its effects on a national economy are studied in this course. Particular emphasis is placed on the study of foreign investments, cartels, international output and price controls. *Prerequisites:* ECO 2301 and ECO 2302.

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:* 3 hours of economics and junior standing.

ECON 3356 Business Enterprise and Public Policy [3-0]
As Scheduled

The purpose of this course is to study the nature, scope and effects on the business community of governmental involvement and regulation. Emphasis is placed on the impact of federal legislation as it pertains to antitrust enforcement and the maintenance of competition, the regulation of public utilities and interregional transport, agricultural adjustment, labor relations and public ownership. This course is designed to give a broad understanding of the many ways in which business and economic life are shaped and influenced by government.

ECON 3357 Economics of Poverty [3-0]
As Scheduled

The causes and social consequences of poverty, as well as the natures and effectiveness of income transfer programs, are studied in this course; it also includes topics such as welfare reform, Social Security, pension plans, Medicare, national health and negative income tax programs. *Prerequisites:* ECO 2301 and ECO 2302.

ECON 3358 Labor Economics [3-0]*As Scheduled*

This course provides an in-depth analysis of labor market structures and processes, patterns and determinants of work and wages, labor force participation, unemployment, discrimination and human capital. *Prerequisites:* ECO 2301 and ECO 2302.

ECON 3359 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.

ECON 3360 Managerial Economics [3-0]

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:* ACC 2421, MANA 3361 and 3 hours of Economics.

ECON 4359 History of Economic Thought [3-0]*As Scheduled*

This course provides a survey of the entire 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:* ECO 2301 and ECO 2302.

ECON 4361 Studies in Economics [3-0]*As Scheduled*

A special topic selected by the instructor will be assigned. Total course content will be established a priori. This course will have variable content and may be repeated for credit with consent of instructor. *Prerequisites:* ECO 2301 and ECO 2302.

ECON 4362 Global Entrepreneurship [3-0]*As Scheduled*

This course will provide students with a global entrepreneurship experience. It will feature the study of successful entrepreneurs from around the world and will entail the art of doing business in different countries. A focal point of the course will be to learn how to evaluate global opportunities for new

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ventures and how to gather resources to take advantage of these opportunities. The student will be required to complete a project where he or she will contrast local, national and global strategies for business development. *Prerequisites:* ECO 2301 and ECO 2302, except for non-business majors who need ECO 1301, ACC 2401, and MANA 3361.

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*Fall, Spring*

Course consists of observation, limited participation in teaching, then full teaching responsibility in a public school (TEA-accredited) special education classroom to which the student is assigned. This work is done under the guidance of the teacher of the class to which the student is assigned and the supervision of a college professor who makes periodic observations and evaluations of the student's progress. Seminars and individual conferences are required. Students are assigned to the public school classroom for a minimum number of hours as mandated by TEA. The number of hours per day and the number of days per week are regulated by TEA, UTPA Student Teaching Manual and local school districts. *Prerequisites:* Approval of UTPA Teacher Education Committee. For additional prerequisites, refer to Directed Student Teaching Requirements for Generic Special Education.

Alternative Certification Program

EDAC 4320 Internship [3-0-30] *As Scheduled*

Will consist of on-site supervision. Seminars will meet weekly during the semester and for a minimum of 12 hours. This course is required to meet elementary and secondary requirements for teacher certification. May not be substituted for Student Teaching. *Prerequisites:* Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

EDAC 4321 Internship [3-0-30] *As Scheduled*

Will consist of on-site supervision. Seminars will meet weekly during the semester and for a minimum of 12 hours. This course is required to meet elementary and secondary requirements for teacher certification. May not be substituted for student teaching. *Prerequisites:* Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

EDAC 4340 Introduction to the Teaching Profession [3-0-4]

Fall, Spring, Summer

This course, designed for both elementary and secondary Alternative Certification candidates, will orient students to the teaching profession, the lesson cycle, the teaching process and real-life requirements of teaching in a modern public school. Following instruction in observation skills, students will spend 45 clock hours, including three full consecutive days, in a public school setting where they will have the opportunity to prepare lessons and teach them in small and large group settings. ACP students will be evaluated in both the University and public school setting.

EDAC 4342 Introduction to Early Childhood Education [3-0]

As Scheduled

Teachers of young children (birth to age 8) must understand how children develop socially, emotionally, physically and cognitively so that they can plan developmentally appropriate experiences for each child. The major purpose of this course is to present current theories, knowledge and research about children that underlie decision-making in early

childhood programs. A second purpose is to illustrate how theories and research findings evolve into curriculum organization, teaching strategies and activities that are developmentally appropriate for young children.

EDAC 4343 The Process of Reading [3-0] *As Scheduled*

The reading process and its correlates as they pertain to emergent literacy through the acquisition of comprehension processes; focus on the directed reading process for grades PK through 4; connections among the processes of language, writing and reading; basic diagnosis techniques and assessment procedures as they relate to the reading/writing process.

EDAC 4344 First and Second Language Acquisition: Theory and Methodology [3-0]

As Scheduled

A study of the teaching-learning process in a dual language classroom, focusing on research and methodology of first and second language acquisition by the elementary and secondary Hispanic student.

EDAC 4345 Theory and Methodology of Instruction Planning in the Elementary Schools [3-0]

As Scheduled

This course will present principles of curriculum organization and planning based on learner needs. Students will design instruction to enable elementary students to achieve educational goals and objectives. Implementation of the lesson cycle with utilization of instructional media will be stressed. The scope, sequence and materials for teaching the elementary school curriculum will be studied. The course will include basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the elementary learner will be included.

EDAC 4348 Instructional Planning Methodology and Classroom Management in the Secondary Schools [3-0]

As Scheduled

This course focuses on the practical application of Texas curriculum requirements incorporating the lesson cycle for planning, implementing and

evaluating the teaching-learning process in secondary schools within legal and ethical guidelines. It includes basic principles and procedures of instruction and classroom management, with emphasis on discipline and effective teaching strategies. Skills needed to meet the requirements of the Texas Teacher Appraisal System will also be addressed. Microteaching with appropriate instructional media and technology for the secondary learner will be included.

EDAC 4620, 4621 Internship [6-0-30]
As Scheduled

Internship will consist of on-site supervision. Seminars will meet weekly during the fall semester and for a minimum of 12 hours during the spring semester. Courses are designed to meet elementary or secondary requirements for teacher certification. May not be substituted for student teaching. *Prerequisites:* Baccalaureate degree and acceptance into the UT Pan American Alternative Certification Program.

Bilingual Education

EDBE 3315 The Bilingual Curriculum in the Content Areas [3-0-2]

Fall, Spring (and Summer for endorsement only)
This is a course in which the learner-centered curriculum for the content area will be studied, focusing on the Texas Essential Knowledge and Skills (TEKS) of science, mathematics, social studies and health in a dual language classroom. (Field-Based Approved Course.)

EDBE 3316 The Development of Biliteracy [3-0-2]

Fall, Spring (and Summer for endorsement only)
This course will examine the transfer of Spanish literacy to English literacy. The course will also emphasize the current perspective of the social nature of the biliteracy process in order to provide relevant and meaningful learning experiences for all learners. (Field-Based Approved Course.)

EDBE 3322 Foundations of Bilingual Education [3-0-11/2]

Fall, Spring, Summer
The study of cultural, psychological, socioeconomic, linguistic, cognitive and curricular factors affecting the

academic achievement of bilingual students. This course also will investigate the philosophical, legal and sociological aspects of bilingual education in the American public school system. National, state and local guidelines designed to meet the needs of multilingual and multicultural student populations will be reviewed.

EDBE 3324 English as a Second Language [3-0-2]

Fall, Spring, Summer

The rationale, theories, goals and practical applications of a comprehensive learner-centered ESL curriculum will be studied. The integration of a learner-centered ESL curriculum in biliteracy development will also be examined as an integral component of a bilingual education program.

EDBE 4304 The Development of Bilingualism [3-0-2]

Fall, Spring (and Summer for endorsement only)

This course is designed to investigate the nature of dual language development in a bilingual setting, beginning with early childhood through the sixth grade. Special emphasis is placed on first and second language development and transference of skills and concepts resulting in balanced bilingualism. (Field-Based Approved Course.)

Curriculum and Instruction

EDCI 3305 Foundations of Multicultural Education [3-0-2]

Fall, Spring

A review of the concept of culture, its components and dimensions, and its implications for the education of students in a multicultural society. Consideration will be given to the value and importance of cultural pluralism as reflected in a multicultural world. These concepts will be integrated into instructional strategies and curriculum that will enable the teacher to respond appropriately to diverse groups of learners. (Field-Based Approved Course.)

EDCI 4301 Foundations of Education [3-0-11/2]

Fall, Spring, Summer

This course is designed for the student who is preparing to teach in middle school or secondary school. Students

will investigate the teaching profession as it relates to social, political and economic forces in a global society. The historical and philosophical systems that have influenced and shaped the current state of schools will also be studied. Research, issues and trends in these areas with regard to middle schools and high schools will be examined through classroom instruction, print and non-print resources, online news services, and field-based experiences (e.g., attendance at school board meetings, professional teachers' association meetings, interviews with educators, interviews with persons of diverse educational backgrounds). These field-based experiences will be examined critically in seminars, larger group discussions, through the writing of reaction papers and through investigating case studies. The importance of professional ethics and personal integrity will be examined, and each student will be expected to write a statement of his or her philosophy of education as a course completion requirement. For secondary education students only.

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 4307 Secondary Curriculum: Internship I [3-0-3]

Fall, Spring, Summer

This course is designed for students preparing to teach in middle and secondary schools. In this course, the prospective teacher will identify needs and will plan, implement and assess instruction using technology and other resources. Ability to demonstrate lessons in the content area utilizing appropriate technology will be stressed. The course will be conducted, with EDCI 4308, for one-half day, primarily at school and technology center sites. EDCI 4307 *MUST* be taken as part of a block with EDCI 4308 with the exception of All-Level Certification students. *Prerequisites:* EDCI 4301 and EDCI 4302.

EDCI 4308 Advanced Secondary Curriculum: Internship I [3-0-3]

Fall, Spring, Summer

This course is designed for students preparing to teach in middle schools and secondary schools. In this course, the prospective teacher examines and models teaching/learning styles that place the learner at the center of instruction. Integration of other disciplines, the learners' interests and technological resources will be stressed in considering central themes of subject matter from many different cultural and intellectual viewpoints. Strategies for classroom management will be examined. The course will be conducted, with EDCI 4307, for one-half day, primarily at school and technology center sites. EDCI 4308 *MUST* be taken as part of a block with EDCI 4307. *Prerequisites:* EDCI 4301 and EDCI 4302.

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 language 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. *Secondary prerequisites:* EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308 and READ 4351.

EDCI 4311 Directed Teaching — Elementary: Internship II [3-0-15]

Fall, Spring

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA-accredited) 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 dictated by TEA. The number of hours per day and the number of days per week are regulated by TEA, UT Pan American Student Teaching Manual and local school districts. *Prerequisites:* Meet requirements for student teaching and approval of UT Pan American Teacher Education Committee.

EDCI 4312 Directed Teaching — Early Childhood: Internship II [3-0-15]

Fall, Spring

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA-accredited) pre-kindergarten or kindergarten 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 dictated by TEA, UT Pan American Student Teaching Manual and local school districts. *Prerequisites:* Meet requirements for student teaching and approval of UT Pan American Teacher Education Committee.

EDCI 4316 Principles of Teaching Workshop for Elementary/Secondary Teachers Advanced [3-0]

As Scheduled

A workshop course designed for the person entering

the teaching profession to study classroom management and to give the student the opportunity to develop instructional skills needed in the area of the instructional assignment. *Prerequisite:* Special permission must be given to each participant before enrollment in the course.

EDCI 4318 Special Topics in Secondary Education As Scheduled

An elective course for Secondary Certification candidates. Topics vary. Will be used primarily as a substitute for the 6-hour student teaching course for students on emergency degree plans. Can be repeated for credit. *Prerequisite:* EDCI 4302 or consent of instructor.

EDCI 4398 Secondary Special Education/English as a Secondary Language Internship II

Fall, Spring

This course gives secondary students experience in responsible teaching at the secondary level under the guidance of public school supervising teachers (mentors) and University supervisors (mentors). The course is designed primarily for secondary students who have a special education minor or who are seeking an ESL endorsement. *Prerequisites:* EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, READ 4351 and approval of UT Pan American Teacher Education Committee.

EDCI 4399 Secondary All-Level Internship II [3-0-20]

Fall, Spring

This course is designed for students in kinesiology, art or music who need both elementary and secondary grade level placement plus an additional teaching field certification. The course requires classroom observations, classroom instruction, assumption of professional duties and attendance at University seminars. The intern will be placed in a state-accredited school under the guidance of an experienced classroom teacher (mentor) and a University supervisor (mentor). *Prerequisites:* EDCI 4301, EDCI 4302, EDCI 4307, EDCI 4308, READ 4351 and approval of UT Pan American Teacher Education Committee.

EDCI 4611 Directed Teaching — Elementary Internship II [3-0-30]

Fall, Spring

Course consists of observation, limited participation in teaching, then full teaching responsibility in an elementary public school (TEA-accredited) 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 classroom for a minimum number of hours as dictated by TEA. The number of hours per day and the number of days per week are regulated by TEA, UT Pan American Student Teaching Manual and local school districts. *Prerequisites:* EDCI 4305 and EDCI 4306 and approval of UT Pan American Teacher Education Committee.

EDCI 4641 Secondary Internship II [3-0-30]
Fall, Spring

Internship for all options. One 36-hour teaching field, two 24-hour teaching fields or one 48-hour teaching field in approved subject would require a 12-week program which includes instruction on the University campus and full day internship in an approved school with weekly seminars that re-emphasize previous course content and its application to the classroom. *Prerequisites:* EDCI 4301, EDCI 4302, EDCI 4307 and EDCI 4308 and approval of UT Pan American Teacher Education Committee.

EDCI 4699 Internship-All Levels [3-0-30]
Fall, Spring

This course is designed for students in kinesiology, art or music who need both elementary and secondary grade-level placement plus an additional teaching field certification. Course requires classroom observations, classroom instruction, professional duties and University seminars. The intern will be placed in a state-accredited school under the guidance of an experienced classroom teacher (mentor) and a University supervisor (mentor). *Prerequisites:* EDCI 4301, EDCI 4302, EDCI 4307 and EDCI 4308 and approval of UT Pan American Teacher Education Committee.

Early Childhood

EDEC 4314 Research in Early Childhood [3-0-11/2]
Fall, Spring

Students will research and survey current trends in early childhood programs including day care. Theories of classroom management and supervision of children

will be emphasized. *Prerequisites:* EDEC 4390 and EDEC 4391.

EDEC 4390 Developmentally Appropriate Practices in Early Childhood Education [3-0-11/2]

Fall, Spring, Summer

This course will address child development at the early childhood level. Developmentally appropriate practices in a learner-centered curriculum for early childhood education will be emphasized. (Field-Based Approved Course.)

EDEC 4391 Foundations of Early Childhood Education [3-0-11/2]

Fall, Spring, Summer

This course will address child development during early childhood as it impacts formal learning settings. A learner-centered curriculum which includes learning centers, thematic instruction, and authentic assessment in a field-based setting will be emphasized. (Field-Based Approved Course.) *Prerequisite:* EDEC 4390.

EDEC 4392 Acquisition and Conceptualization Processes in Early Childhood [3-0-2]

Fall, Spring (and Summer for endorsement only)

Analysis of processes of acquisition and conceptualization of Piagetian concepts, socialization, wellness and fitness. (Field-Based Approved Course.) *Prerequisite:* EDEC 4390.

EDEC 4393 Cultural Dimensions Related to Early Childhood [3-0-2]

Fall, Spring (and Summer for endorsement only)

Multicultural, pluralistic societies will be reviewed with emphasis on major components of culture. The culture of Hispanics and other minorities will be an integral part of this course. Dynamics of socioeconomic status, stereotyping, family structure, language acquisition and health/nutrition will be researched.

EDEC 4394 Cognitive and Psychomotor Development in Early Childhood [3-0-2]

Fall, Spring (and Summer for endorsement only)

Theories of and stages of cognitive and psychomotor development will be analyzed. Developmental program models will be studied. Readiness for first language learning and second language acquisition will be addressed. (Field-Based Approved Course.)

Kinesiology Education

EDUK 4354 Kinesiology in the Public Schools [3-0]

A survey of activities for program planning in public high schools including unit instruction, lesson planning, class organization, special programs and sources of materials. Laboratory experience to be arranged. Field-based. *Prerequisites:* EDCI 4301 and EDCI 4302.

Electrical Engineering

ELEE 2130 Digital Systems Laboratory [0-3]

Fall, Spring

Basics of digital logic and hardware combinational circuits, flip-flops, resistors, sequential circuits and state-machines. *Prerequisite:* Enrollment in ELEE 2330. \$20 laboratory fee.

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 2321 Electrical Circuits II [3-0]

Fall, Spring

Transient response of networks by Fourier and Laplace transform methods, frequency-domain techniques and time-domain techniques. *Prerequisites:* ELEE 2420 and credit for or enrollment in MATH 3349.

ELEE 2330 Digital Systems Engineering I [3-0]

Fall, Spring

Boolean algebra; analysis and synthesis of combinational and sequential switching network; applications to computer design. *Prerequisite:* Sophomore standing recommended.

ELEE 2420 Electrical Circuits I [3-3]

Fall, Spring

Basic network principles; steady-state response to signals; simple transient response; nodal and loop analysis. *Prerequisite:* Credit for or concurrent enrollment in MATH 2401. \$10 laboratory fee.

ELEE 3100 Projects in Electrical Engineering [3,0]

Special projects, research activities or supervised engineering studies. May be repeated for credit. *Prerequisite:* Consent of instructor.

ELEE 3225 Electrical Engineering Laboratory I [0-6]

Fall

Basic experimental methods; theory and practice of measurements; limitations of theoretical models; reporting of technical results. *Prerequisites:* ELEE 2330, ELEE 2130 with a grade of "C" or better and credit for or concurrent enrollment in ELEE 2321 and ELEE 3301. \$30 laboratory fee.

ELEE 3301 Electronics I [3-0]

Fall

A course in the physical principles of electronic devices with emphasis on semiconductor electronics. Includes the analysis and design of electronic circuits such as rectifiers, amplifiers and switching circuits using diodes, bipolar transistors, field effect transistors and operational amplifiers. *Prerequisite:* ELEE 2420 with a grade of "C" or better, credit for or enrollment in ELEE 2321.

ELEE 3302 Electronics II [3-0]

Spring

Provides further study in electronic circuits. Includes analysis and design of differential and multistage amplifiers, feedback and frequency response techniques in amplifier design. *Prerequisites:* ELEE 2321 and ELEE 3301, with a grade of "C" or better.

ELEE 3305 Electrical Systems [2-3]

Fall

Introduction to electric circuits and machines for non-majors. Circuit elements, voltage, current and power, DC circuits, AC circuits in the steady state, elementary transients, poly-phase circuits; types and characteristics of DC motors, transformers and AC motors. This course cannot be used by electrical engineering majors to satisfy degree requirements. *Prerequisite:* MATH 1402. \$15 laboratory fee.

ELEE 3306 Electronic Systems [2-3]*Spring*

Electronic devices and circuits with applications in modern industrial control systems; electronic circuits for signal processing and wave shaping and analog computing; basic digital computer circuits; transducers and sensors; electronic instruments; measurements; basic feedback control systems. *Prerequisite:* ELEE 3305. \$15 laboratory fee.

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 2420 and MATH 2401 with a grade of "C" or better.

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. \$30 laboratory fee.

ELEE 3340 Probability and Statistics for Electrical Engineers [3-0]*Spring*

Probability, random variables, distribution and density functions, limit theorems, random processes, correlation functions, power spectra, response of random inputs. *Prerequisite:* ELEE 2321 with a grade of "C" or better.

ELEE 3370 Power Electronics [3-0]*As Scheduled*

Power electronic devices (diodes, thyristors, etc.); power electronic circuits (rectifiers, DC choppers, AC voltage controllers, etc.); applications (AC and DC motor drives, etc.); modeling and simulation using Spice software. *Prerequisite:* ELEE 3301 with a grade of "C" or better. \$10 laboratory fee.

ELEE 3435 Microprocessor Programming [3-3]*Fall*

Basic microprocessor programming and principles of

assembly language programming; microprocessor organization and interfacing; applications, including data acquisition, control and communication.

Prerequisites: CSCI 1380, ELEE 2330 with a grade of "C" or better.

ELEE 4303 Digital Systems Engineering II [3-0]*As Scheduled*

Hardware implementation of arithmetic and other algorithmic processes; organization, design and simulation of digital systems; programmable logic devices; hardware description language. *Prerequisites:* CSCI 1380, ELEE 2330, and ELEE 3301 or ELEE 3306 with a grade of "C" or better

ELEE 4308 Electromechanical Systems [3-0]*Spring*

Magnetic circuits and transformers; principles of electromechanical energy conversion, rotating AC and DC electric machinery. *Prerequisite:* ELEE 2321 or ELEE 3305 with a grade of "C" or better.

ELEE 4321 Automatic Control [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 4328 Solid State Electronic Devices [3-0]*Fall*

Semiconductor materials and carrier transport; p-n junctions and Schottky barriers; bipolar and field effect transistors; integrated circuits. *Prerequisites:* CHEM 1301, CHEM 1101, ELEE 3315 and ELEE 3301 with a grade of "C" or better.

ELEE 4351 Communication Theory [3-0]*Fall*

Signals, systems and analog modulation techniques; effects of noise in modulation systems, signal-to-noise ratio; digital data transmission; probability of error. *Prerequisite:* ELEE 3340 with a grade of "C" or better.

ELEE 4360 Microwave Systems Engineering [2-3]*As Scheduled*

Ideal and lossy transmission lines: s-parameters; couplers, isolators, circulators and filters; basic active circuits; systems and component specifications; antenna and radiation specifications. *Prerequisites:*

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ELEE 3315 and ELEE 3301 with a grade of "C" or better.
\$5 laboratory fee.

ELEE 4365 Digital Signal Processing [3-0]
As Scheduled

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 with a grade of "C" or better and credit for or concurrent enrollment in MATH 3349.

ELEE 4375 Introduction to VLSI Design [3-0]
Fall, Spring

This course is aimed at providing a broad exposure to the area of CMOS VLSI design and the experience of designing VLSI circuits. The course will be suitable for any electrical engineering, computer engineering and computer science undergraduate student. *Prerequisites:* ELEE 2130 with a grade of "C" or better, at least junior standing or consent of instructor. \$10 laboratory fee.

ELEE 4380 Computer Architecture [3,0]

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:* ELEE 3435.

ELEE 4390 Communication Networks [3,0]

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.

English

ENG 1301 Composition [3-0]

(Texas Common Course Number is ENGL 1301.)

As Scheduled

This course affords the opportunity for students to develop their ability to communicate effectively and responsibly through written discourse. Emphasis upon mechanical proficiency and organization skills in writing expository essays, analysis of style, tone and point of view of expository prose. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) *Prerequisite:* Satisfactory scores on English portion of ACT test and TASP examination, or ENG 1320.

ENG 1302 Rhetoric [3-0]

(Texas Common Course Number is ENGL 1302.)

As Scheduled

This course offers the opportunity to learn to recognize and to employ the principles of rhetoric in written discourse. Analysis of rhetoric and logic, writing of essays, and study of research and documentation techniques. Requires the completion of a research project. (Credit for this course may be obtained by qualified students through advanced placement or advanced standing examinations.) *Prerequisite:* A grade of "C" or better in ENG 1301, ENGL 1387 or ENG 1406.

ENG 1310 Reading-Vocabulary [3-0]

As Scheduled

This course offers students the opportunity to develop their ability to read college-level materials. Emphasis on vocabulary and word recognition skills, comprehension skills, study skills and efficiency in content area reading. Required of students with reading skills below college level. Course does not satisfy General Education 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. *Prerequisite:* 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. *Prerequisite:* ENGL 1387 or by invitation.

ENG 2300 Introduction to Literature [3-0]

As Scheduled

An introduction to literary genres, with special emphasis on the short story, novel or novella, drama and poetry. Requires careful reading and the writing of critical essays about individual works. *Prerequisite:* Minimum grade of "C" in 6 hours of required freshman English.

ENG 2303 Readings in American Literature [3-0]

As Scheduled

(Texas Common Course Number is ENGL 2326.)

A study of several masterpieces of American literature, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite:* Minimum grade of "C" in 6 hours of required freshman English.

ENG 2305 Readings in English Literature [3-0]

(Texas Common Course Number is ENGL 2322.)

As Scheduled

A study of several masterpieces of English literature, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite:* Minimum grade of "C" in 6 hours of required freshman English.

ENG 2307 Readings in World Literature [3-0]

(Texas Common Course Number is ENGL 2331.)

As Scheduled

A study of several masterpieces of world literature in translation, with emphasis on careful reading and on writing critical essays about individual works. *Prerequisite:* Minimum grade of "C" in 6 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 General Education requirements but may be repeated for elective credit when the topic varies. *Prerequisite:* Minimum grade of "C" in 6 hours of required freshman English.

ENG 2313 Readings in Dramatic Literature [3-0]

As Scheduled

Critical review and analysis of selected plays from Greek antiquity to the present time. Designed to clarify the nature and major achievements of Western dramatic art. *Equivalent Course:* COMM 2313; may be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. *Prerequisite (for English credit):* Minimum grade of "C" in 6 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. *Prerequisite:* 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. *Prerequisite:* Admission to Honors Studies or by invitation.

ENG 3301 Medieval Literature [3-0]

As Scheduled

A study of various types of medieval literature, including the epic, the romance and the allegory, with special attention to Middle English writers. *Prerequisite:* 9 hours of English.

ENG 3304 The Eighteenth Century [3-0]

As Scheduled

A study of the major works of English writers of the Neo-classical period, including Dryden, Congreve, Pope, Swift, Sterne and Samuel Johnson. *Prerequisite:* 9 hours of English.

ENG 3305 The Romantic Period [3-0]*As Scheduled*

A study of the development of romanticism in France, Germany and England, with the main emphasis on English writers. *Prerequisite:* 9 hours of English.

ENG 3306 The English Novel to 1850 [3-0]*As Scheduled*

A study of the origins and development of the English novel with emphasis on the major novelists. *Prerequisite:* 9 hours of English.

ENG 3307 The English Novel from 1850 to Present [3-0]*As Scheduled*

A study of the continuing development and techniques of the English novel with emphasis on the major novelists. *Prerequisite:* 9 hours of English.

ENG 3309 Development of the American Novel [3-0]*As Scheduled*

A study of the American novel from its beginnings to the present, with emphasis on the major novelists. *Prerequisite:* 9 hours of English.

ENG 3310 Twentieth Century English and American Poetry [3-0]*As Scheduled*

A study of the trends and movements in contemporary poetry, with emphasis on the works of the major writers. *Prerequisite:* 9 hours of English.

ENG 3311 Contemporary Drama [3-0]*As Scheduled*

A study of trends and movements in 20th Century American, British and European drama, with emphasis on works of major playwrights. *Equivalent Course:* COMM 3311; may be counted as English or Communication in satisfying degree requirements. Credit may be received for only one course. *Prerequisite:* 9 hours of English.

ENG 3312 Survey of American Literature [3-0]*As Scheduled*

A chronological study of the principal authors, works and trends in American literature from the Colonial period through the Civil War. *Prerequisite:* 9 hours of English.

ENG 3313 Survey of American Literature [3-0]*As Scheduled*

A chronological study of the principal authors, works and trends in American literature from the Civil War to the present. *Prerequisite:* 9 hours of English.

ENG 3317 The Short Story and the Novella [3-0]*As Scheduled*

A study of the development and technique of the short story and novella with emphasis on literary analysis. *Prerequisite:* 9 hours of English.

ENG 3319 Introduction to Descriptive Linguistics [3-0]*As Scheduled*

An introduction to the methods of linguistic science with emphasis on problem-solving techniques and their application to specific problems. *Prerequisite:* 9 hours of English.

ENG 3320 Advanced Topics in English [3-0]*As Scheduled*

A course adapted to the study of advanced special topics in English. Course may be offered for open enrollment when topic is selected by the instructor, or course may be conducted as independent/conference study when topic is selected by student and approved by the instructor. May be repeated for credit when topics vary. *Prerequisite:* 9 hours of English.

ENG 3321 Language and Culture [3-0]*As Scheduled*

Systematic exploration of social aspects of language and language use, including language attitudes, sociolinguistic dynamics of language contact situations, language learning, and the social and linguistic nature of dialects, language variation and language change. *Prerequisite:* 9 hours of English.

ENG 3322 Poetry [3-0]*As Scheduled*

An in-depth study of the art and nature of poetry, with emphasis on sounds, forms, language and modes of poetry. *Prerequisite:* 9 hours of English.

ENG 3323 World Drama [3-0]*As Scheduled*

A study of trends and movements in dramatic literature from ancient Greece through the present. Emphasis on the works of major playwrights. *Equivalent Course:* COMM 3323; may be counted as

English or Communication in satisfying degree requirements. Credit may be received for only one course. *Prerequisite:* 9 hours of English.

ENG 3324 The Victorian Period [3-0]

As Scheduled

A study of the literature of Victorian England, from 1832 to the end of the 19th Century. *Prerequisite:* 9 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:* ENG 3319.

ENG 3331 Survey of English Literature [3-0]

As Scheduled

A chronological study of the principal authors, works and trends in English literature from the Anglo-Saxon period to the beginning of the Romantic movement. *Prerequisite:* 9 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. *Prerequisite:* 9 hours of English.

ENG 3333 Technical Report Writing [3-0]

As Scheduled

Training in writing and presentation of special types of reports often used in engineering, science and business. *Prerequisite:* 9 hours of English.

ENG 3334 Gallery [3-0]

Spring Semester

A hands-on course on the process of selecting material, editing, and publishing a student literary arts journal. Includes fundamentals of publicity; manuscript processing, selection, and editing; page design; cover art; printing requirements. *Prerequisite:* 9 hours of English.

ENG 4301 Shakespeare [3-0]

As Scheduled

A study of representative comedies, histories, romances

and tragedies. *Prerequisite:* 9 hours of English.

ENG 4302 Modern English Syntax [3-0]

As Scheduled

Studies in modern English syntax with attention given to investigative methods and findings of contemporary linguistic analysis. *Prerequisite:* ENG 3319.

ENG 4308 History of the English Language [3-0]

As Scheduled

A history of the English language from the Anglo-Saxon period to the present. *Prerequisite:* 9 hours of English.

ENG 4309 Chaucer [3-0]

As Scheduled

A study of selected works of the 14th century English poet. *Prerequisite:* 9 hours of English.

ENG 4310 American Literature of the South [3-0]

As Scheduled

A study of the works of representative writers of the South. *Prerequisite:* 9 hours of English.

ENG 4312 Milton [3-0]

As Scheduled

A study of the major poems and selected prose and minor poetry. *Prerequisite:* 9 hours of English.

ENG 4314 Contrastive Grammar [3-0]

As Scheduled

A comparison of English and Spanish grammatical systems with emphasis on substantive and descriptive problems arising from the differences in the systems. Course open only to students with proficiency in both English and Spanish. *Prerequisite:* ENG 4302.

ENG 4316 Mexican-American Literature [3-0]

As Scheduled

A study of the literature by and about Mexican-Americans, with emphasis on the literary techniques and the cultural reflections in this literature. *Prerequisite:* 9 hours of English.

ENG 4318 Approaches to Literature [3-0]

As Scheduled

A study of the characteristics of poetry, drama and fiction, and of the major approaches to these genres with some attention to works encountered in secondary schools. *Prerequisite:* 9 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.

ENG 4322 Creative Writing I [3-0]*As Scheduled*

A study of literary forms, techniques and values, with practice in writing poetry and prose. *Prerequisite:* 9 hours of English or permission of instructor.

ENG 4325 Composition Techniques [3-0]*As Scheduled*

A study of advanced composition techniques, including theories and methods of teaching composition skills. *Prerequisite:* 9 hours of English.

ENG 4326 Language Acquisition [3-0]*Spring, even years*

An analysis of the process of language learning, the normal development of speech and language, and the relationship of language to cognitive and social development.

ENG 4328 Introduction to English as a Second Language [3-0]*As Scheduled*

A study of the process of learning English as a second language. Special attention given to theories, variables and second language acquisition.

ENG 4331 Problems in Grammar, Dialects and Language Performance [3-0]*As Scheduled*

A study of the second language learner's transition from regional Spanish to standard English. Emphasis on the particular characteristics of the English and Spanish dialects of the region and the manner in which they interrelate. The course will treat theory already learned as well as that presented in the course in the light of practical methodological tools. *Prerequisite:* SPAN 2308. *Prerequisites for bilingual certification students:* ENG 3319; ENG 3330 or SPAN 3330 or consent of instructor.

General Engineering

ENGR 1101 Introduction to Engineering [1-0]*Fall, Spring, Summer*

Introduction to engineering as a career, the requirements for registration as a professional engineer and the fields of specialization within engineering. Approaches to engineering problem solving and the graphical presentation of data. *Prerequisite:* Computer literacy.

ENGR 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. *Prerequisite:* Computer literacy. \$20 laboratory fee.

ENGR 2101 Engineering Technology Laboratory [0-3]*Fall, Spring, Summer*

Introduction to machine shop tool operations, metrology, advanced laboratory skills and data analysis. *Prerequisites:* Sophomore standing and completion of ENGR 1221. \$4 laboratory fee.

ENGR 3101 Engineering Projects Laboratory [0-3]*As Scheduled*

Special construction projects, research activities or supervised engineering studies. May be repeated once for credit. *Prerequisite:* Junior standing or consent of the instructor. \$4 laboratory fee.

ENGR 3333 Topics in Engineering [3-0]*As Scheduled*

The topic will be changed by demand. May be repeated for credit. Intermediate topics in the engineering disciplines will be presented. *Prerequisite:* Junior standing in engineering or consent of instructor.

ENGR 4461 Senior Design Project I [1-9]*Fall, Spring*

Preparation for a capstone design experience drawing from all previous coursework. Discussion of engineering methods, problem definition, assumptions, methods of analysis, testing and reporting results. Project to be undertaken in Senior Design Project II will be selected. *Prerequisite:* Senior standing in engineering. \$30 laboratory fee.

ENGR 4462 Senior Design Project II [1-9]*Fall, Spring*

Continuation of Senior Design Project I. 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. Classroom discussions will consider professional responsibility, ethics, technology and society; entrepreneurship. *Prerequisite:* ENGR 4461. \$30 laboratory fee.

Finance

FINA 1381 Personal Finance [3-0]*(Texas Common Course Number BUSI 1307.)**As Scheduled*

This course studies personal income, budgeting and consumer credit problems, development of plans for purchasing insurance, real estate and securities.

Taxation as it affects the individual's income, assets and estate are also studied. (Not an advanced finance elective.)

FINA 3381 Money and Banking [3-0]*As Scheduled*

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.

FINA 3382 Investment Principles [3-0]*As Scheduled*

This course provides an overview of the valuation of investment securities of corporations and governmental agencies. The purchase and sale of securities through brokerage houses and investment banking firms are also studied.

FINA 3383 Managerial Finance [3-0]*As Scheduled*

The finance function in the firm and the specific responsibilities of the firm's financial manager are studied in this course. Emphasis is placed on financial decisions using managerial information systems as an integrating force to deliver planned results. This study includes, but is not limited to, decisions affecting the

internal management of the firm and the acquisition of new assets and funds. *Prerequisite:* It is recommended that students be currently enrolled in, or have already completed, the first statistics class; ACC 2421 and ECON 2301.

FINA 3384 Fundamentals of Real Estate [3-0]*As Scheduled*

This course studies the physical and economic characteristics of real estate, particularly as they relate to law, taxation, appraisal, marketing and finance.

FINA 3385 Principles of Insurance [3-0]*As Scheduled*

The identification and control of risks facing the individual and the business firm, as well as the use of insurance and other mechanisms in dealing with them, are studied. Other topics include risk analysis, loss prevention, personal and property insurance, insurance programs and estate plans.

FINA 3386 Financial Institutions and Markets [3-0]*As Scheduled*

The dynamics of financial markets and their interaction with the suppliers of funds, particularly financial intermediaries, are studied in this course. *Prerequisites:* FINA 3381.

FINA 3387 Real Estate Finance [3-0]*As Scheduled*

This course provides an analysis of the nature and problems of developing the financing of real estate. Also, it covers a study of financial markets and instruments that are used to solve the financial needs of various real estate activities. *Prerequisite:* FINA 3384 or consent of instructor.

FINA 3391 Small Business Financial Management [3-0]*As Scheduled*

This course covers three important aspects of financial management for the small business: 1) sources of financing; 2) financial planning; and 3) valuation of the small business. Students will be required to complete a term project involving at least one of these aspects in a real business situation. *Prerequisites:* ACC 2421, MANA 3361 and 3 hours of Economics.

FINA 3392 Internship [3-0]*As Scheduled*

A practicum with financial institutions or related

service entities with a view to relate classroom theories with actual practice.

FINA 3393 Entrepreneurial Finance [3-0]

This course provides an in-depth analysis of venture financing and techniques to manage entrepreneurial risk. *Prerequisites:* ACC 2421, MANA 3361 and 3 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 and 12 hours of advanced courses in finance.

FINA 4381 International Finance [3-0]

As Scheduled

The application of finance principles in the international environment are discussed in this course, including the nature of the balance of payment mechanism, the factors affecting the foreign exchange market, defensive techniques to protect the business against foreign exchange risk and the investing, financing and working capital management within a multinational firm. *Prerequisite:* FINA 3383.

FINA 4382 Portfolio Management [3-0]

As Scheduled

This course provides the theoretical framework, techniques and applications of investment management. It also develops models for performance evaluation emphasizing optimum combination of risk and return. *Prerequisite:* FINA 3382.

FINA 4383 Advanced Managerial Finance [3-0]

As Scheduled

This course considers the commitment of funds to asset purchases and the measuring and influencing of cost of capital. It emphasizes the development of tools and techniques using quantitative methods for the analytical study of financial administration and its applications in the major problem areas of corporate finance. *Prerequisite:* 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

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formulation is emphasized; coordination with general economic and money market conditions is covered. *Prerequisites:* FINA 3381 and FINA 3386 or consent of instructor.

French

FREN 1321 Beginning French I [3-0]

(Texas Common Course Number is FREN 1311.)

Fall, Spring

A study of the essentials of French grammar, pronunciation, elementary conversation and prose reading. *Credit Restriction:* A student may receive credit for only one of FREN 1321 or FREN 1387.

FREN 1322 Beginning French II [3-0]

(Texas Common Course Number is FREN 1312.)

Fall, Spring

A continuation of FREN 1321. *Credit Restriction:* A student may receive credit for only one of FREN 1322 or FREN 1388. *Prerequisite:* FREN 1321.

FREN 1387 Beginning French (Honors Plan) [3-0]

As Scheduled

A beginning French course designed to meet the needs of Honors students interested in learning to read, write and speak French fluently at an accelerated pace. French culture and appropriate reading will be introduced. Open to students needing accelerated introduction to the French language. *Credit Restriction:* A student may receive credit for only one of FREN 1321 or FREN 1387. *Prerequisite:* Admission to the Honors Studies Program or by invitation.

FREN 1388 Beginning French (Honors Plan) [3-0]
As Scheduled

A beginning French course designed to meet the needs of Honors students interested in learning to read, write and speak French fluently at an accelerated pace. Elements of French culture and literature and appropriate reading will be introduced. Open to students needing accelerated introduction to the French language. *Credit Restriction:* A student may receive credit for only one of FREN 1322 or FREN 1388. *Prerequisite:* FREN 1387 or by invitation.

FREN 2321 Intermediate French I [3-0]
(Texas Common Course Number is FREN 2311.)
As Scheduled

Grammar review, conversation and writing practice based on selected literary and cultural readings. An emphasis on usage of different modes and tenses, as well as complex syntax. *Prerequisite:* FREN 1322.

FREN 2322 Intermediate French II [3-0]
(Texas Common Course Number is FREN 2312.)
As Scheduled

Grammar review, conversation and writing practice based on selected literary and cultural readings. An emphasis on usage of different modes and tenses, as well as complex syntax. *Prerequisite:* FREN 2321.

FREN 3321 French Composition I [3-0]
As Scheduled

Practice in writing expository, narrative and descriptive prose. *Prerequisite:* FREN 2322.

FREN 3322 French Composition II [3-0]
As Scheduled

Practice in writing critical appreciations of selected literary works. *Prerequisite:* FREN 3321.

FREN 4324 French Civilization I [3-0]
As Scheduled

A study of French culture and civilization from the Roman conquest of Gaul by Julius Caesar to the French Revolution of 1789. *Prerequisite:* FREN 3321.

FREN 4325 French Civilization II [3-0]
As Scheduled

A study of French culture and civilization from the French Revolution of 1789 to the present. *Prerequisite:* FREN 3321.

FREN 4339 Special Topics [3-0]
As Scheduled

Special topics from the field of French language and literature. *Prerequisite:* FREN 3321.

Geography

GEOG 2313 Principles of Physical Geography [3-0]
Fall, Spring, Summer

An introduction to physical geography with emphasis on weather, ocean currents and climates. Soils and vegetation types and distributions are also studied. Can be counted in the supporting areas of elementary education curriculum.

Geology

GEOL 1401 Physical Geology [3-3]
(Texas Common Course Number is GEOL 1403.)
Fall, Spring, Summer

Involves a comprehensive description of materials composing the earth and deals with the classification and analysis of geologic agents responsible for the origin, structure and evolution of the earth's crust. \$4 laboratory fee.

GEOL 1402 Historical Geology [3-3]
(Texas Common Course Number is GEOL 1404.)
Fall, Spring, Summer

A course dealing with the geological history of the earth and its inhabitants as revealed by the fossil record with emphasis on North America. \$4 laboratory fee.

GEOL 1403 Environmental Geoscience I [3-3]
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 2401 Geomorphology [3-3]
As Scheduled

A course designed for sophomores interested in geology and teachers of earth science. An analysis of land forms of the earth and processes by which they are formed. Also, comparative studies of lunar-earth

land forms. Emphasis will be placed on mapping and interpretation of local geomorphology. Field trips.
Prerequisite: GEOL 1401. \$4 laboratory fee.

GEOL 2402 Structural Geology [3-3]

As Scheduled

A course designed for geology minors and teachers of earth science. A study of the architecture of the earth, including the causes of deformation, resulting structures and their interrelationships. Field trips. *Prerequisites:* GEOL 1401 and GEOL 1402. \$4 laboratory fee.

GEOL 3401 Mineralogy [3-3]

As Scheduled

A course designed for geology minors, chemistry majors or minors, or teachers of earth science. A study of the major mineral groups, their atomic structure, chemical composition, external forms, properties and geologic interpretation. Field trips. *Prerequisites:* GEOL 1401 or CHEM 1401 and CHEM 1402. \$4 laboratory fee.

GEOL 3403 Oceanography [3-3]

As Scheduled

An introduction to physical oceanography designed for geology minors, biology majors and earth science teachers. A study of the origin, motions and the physical and chemical properties of marine waters. Field trips. *Prerequisite:* GEOL 1401 or advanced standing in any of the related sciences or consent of the instructor. \$4 laboratory fee.

GEOL 3404 Stratigraphy-Sedimentation [3-3]

As Scheduled

A study of sedimentary processes and principles of stratigraphy, followed by a survey of stratified rocks of North America, their correlation, stratigraphic relations and guide fossils. Field trips. *Prerequisites:* GEOL 1401, GEOL 1402, GEOL 2402 and GEOL 3401. \$4 laboratory fee.

GEOL 3405 Petrology [3-3]

As Scheduled

A course designed for geology minors or teachers of earth science. A study of the major rock groups, their origin, classification and chemical and physical properties. Both megascopic and petrographic techniques will be emphasized. Field trips. *Prerequisite:* GEOL 3401. \$4 laboratory fee.

GEOL 3408 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, meteorologic, electromagnetic, biologic and political knowledge will be presented. Computer data structures including relational databases will be examined. The spatial analysis potential of a GIS will be compared with traditional manual (cartographic) methods.

GEOL 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 12 hours in geology or by approval of the instructor.

GEOL 4408 Applications of Geographic Information Systems [3-3]

As Scheduled

New ways of using georeferenced data. Methods of integrating information from multiple sources will be used to analyze the interdependencies of both human and physical systems in a rapidly changing rural to urban environment. Examples will be given of uses in evaluating resource capability units, analyzing hazardous radiation areas, mineral exploration, land management, flood prediction and control, earthquake prediction and hurricane preparation. Attention will be given to problems of data quality, errors, accuracy and logical consistency. *Prerequisite:* GEOL 3408.

History

HIST 2313 American Heritage I [3-0]

(Texas Common Course Number is HIST 1301.)

Fall, Spring, Summer

An integration of social, political and economic history of the United States with attention directed to geography and its influences. The approach is by problems that move chronologically from the earliest Colonial Period through the Civil War. Open to freshmen who enter with a credit in American history from high school. *Credit Restriction:* Credit may be received in only one of HIST 2313 and HIST 2387.

HIST 2314 American Heritage II [3-0]*(Texas Common Course Number is HIST 1302.)**Fall, Spring, Summer*

An integration of social, economic and political history of the United States with attention to geographical influences. The approach is by problems that move chronologically from Reconstruction to the present. Open to freshmen who enter with a credit in American history from high school. *Credit Restriction:* Credit may be received in only one of HIST 2314 and HIST 2388.

HIST 2331 Civilization Through the Centuries [3-0]*Fall, Spring, Summer*

A thorough survey of the political, social and cultural history of Europe through the treaty of Westphalia. Emphasis will be given to the contributions of Greece and Rome to the western world, the fall of Rome, the beginning of feudalism and the rise of national states, the Renaissance and the Protestant reformation. Major developments in world history will be related to these periods of European history.

HIST 2332 Civilization Through the Centuries [3-0]*Fall, Spring, Summer*

A continuation of History 2331 to the present time. Emphasis will be given to European expansion, the French Revolution and Napoleon, the Industrial Revolution, the spread of socialism and the world conflicts of the 20th century. Major developments in world history will be related to these periods of European history.

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. *Prerequisite:* 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. *Prerequisite:* Admission to Honors Studies or by invitation.

HIST 3301 The History of Ideas [3-0]*As Scheduled*

A study of major beliefs and patterns of thought in Western culture, emphasizing the development of the arts and sciences, social thought and religion. *Prerequisite:* 6 hours of history.

HIST 3302 World History Studies [3-0]*Fall, Spring, Summer*

A comprehensive survey of social, economic, political, cultural and geographical factors influencing the course of world history. Emphasis will be on thematic and content material. *Prerequisite:* 6 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, and the connections between resources and the rise of civilizations and empires. *Prerequisite:* 6 hours of history.

HIST 3313 American Colonial Era to 1783 [3-0]*As Scheduled*

A study of American Colonial history from the founding of the first colony through the American Revolution with emphasis given to the development of American civilization; causes, course and results of the American Revolution. *Prerequisite:* 6 hours of history.

HIST 3324 Formative Period of the American Nation, 1783-1840 [3-0]*As Scheduled*

A study of the early years of the American nation from the critical period to the adoption of the Constitution and launching of the new government through the transformation of American society by the Jacksonian Era of the Common Man. *Prerequisite:* 6 hours of history.

HIST 3330 A General Survey of the History of Texas [3-0]

As Scheduled

A survey of the history of Texas from indigenous period to present. *Previous Course Number:* HIST 2333; a student may receive credit for only one course. *Prerequisite:* 6 hours of history.

HIST 3332 Historiography and Methodology [3-0]

As Scheduled

This course will acquaint students with the various schools of history, famous scholars and common debates in the field of history. The class will also provide instruction in the various tools and research methods that are utilized by historians. *Prerequisite:* 9 hours of history, including either 2331 or 2332.

HIST 3333 Colonial Mexico, Central and South America [3-0]

As Scheduled

A study of the establishment of Spanish dominion; geography and natural resources; institutional and social development; cultural aspects and contribution. *Prerequisite:* 6 hours of history.

HIST 3335 History of Spain [3-0]

As Scheduled

The historical development of the Spanish nation from earliest times to the present. Emphasis will be given to the evolution of the political, economic and social institutions that are important to the conquest and colonization of the Americas. *Prerequisite:* 6 hours of history.

HIST 3341 History of England I, to 1686 [3-0]

As Scheduled

English history from earliest times through the period of the Stuart kings. Emphasis will be given to the factors that have influenced the development of British and American institutions. *Prerequisite:* 6 hours of history.

HIST 3342 History of England II, after 1686 [3-0]

As Scheduled

The period of the Glorious Revolution to the British Empire and commonwealth of nations. *Prerequisite:* 6 hours of history.

HIST 3350 The American Military Experience [3-0]

As Scheduled

The American military experience will be examined from

the colonial period to the present. The course will examine not only the operational history of the American military but also the causes and consequences of war and the role of the military in American society. *Prerequisite:* 6 hours of history.

HIST 3373 Mexican-American Heritage [3-0]

As Scheduled

An interpretation of the historical heritage of the Mexican-American in the United States. *Prerequisite:* 6 hours of history.

HIST 4303 The Emergence of Modern America, 1877-1917 [3-0]

As Scheduled

A study of the growth of American business and industry, the emergence of the United States as a world power, the populist protest and progressive reform movements. *Prerequisite:* 6 hours of history.

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:* 6 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:* 6 hours of history.

HIST 4325 The American Southwest After 1821 [3-0]

As Scheduled

The American penetration of Texas and the war with Mexico; subjugation of the Indians; extension of mining, railroad, cattle industry and farming across the Southwest; and the transition from raw frontier to modern states of the Southwest. *Prerequisite:* 6 hours of history.

HIST 4343 Era of Sectional Conflict 1840-1877 [3-0]

As Scheduled

United States history from 1840 to 1877 with emphasis upon the development of sectionalism, Southern nationalism, the breakdown of American political

parties, Civil War and Reconstruction. *Prerequisite:* 6 hours of history.

HIST 4345 Mexico's First Century as an Independent Republic [3-0]

As Scheduled

A study of the political, social and economic development of Mexico from the independence movement to the Revolution of 1910. A study of the problems of Mexico and the various distinct eras of its first century as a republic. *Prerequisite:* 6 hours of history.

HIST 4352 Brazil After Independence [3-0]

As Scheduled

A study of Brazil as an empire and a republic with emphasis on the social, geographic and political factors that make it a unique nation in the Western hemisphere. *Prerequisite:* 6 hours of history.

HIST 4353 History of Mexican Culture [3-0]

As Scheduled

A study of the Mexican people, including development of their social institutions, thinking, concepts, attitudes, values, reactions and sensitivities. *Prerequisite:* 6 hours of history.

HIST 4354 Contemporary Mexico [3-0]

As Scheduled

A study of the nature and impact of the social, political and economic transformations since the revolutionary epoch of 1910-1917; greatest emphasis on the contemporary factors that have made Mexico's experience unique. *Prerequisite:* 6 hours of history.

HIST 4355 Spanish South America Since Independence [3-0]

As Scheduled

The historical development of the major Hispanic South American republics; general trends in their social, economic and political growth. *Prerequisite:* 6 hours of history with HIST 3333 recommended.

HIST 4363 United States-Latin American Relations [3-0]

As Scheduled

The development of a distinctive system of international relations — economic, cultural and political — between the nations of Latin America and the United States. *Prerequisite:* 6 hours of history.

HIST 4370 The Renaissance and the Reformation, 1300 to 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:* 6 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:* 6 hours of history with HIST 2332 recommended.

HIST 4374 The Caribbean and Central America [3-0]

As Scheduled

A study of the 19th century efforts of these nations to emerge as separate entities and an evaluation of their 20th century experiences. *Prerequisite:* 6 hours of history with HIST 3333 recommended.

HIST 4375 Absolutism and Enlightenment in Europe, 1650-1789 [3-0]

As Scheduled

Traces the development of the Absolutist State, benevolent despotism and the intellectual and scientific trends of the Enlightenment. *Prerequisite:* 6 hours of history with HIST 2332 recommended.

HIST 4376 Revolutionary Europe, 1789-1850 [3-0]

As Scheduled

A study of Europe of this period with emphasis on the growth of democratic institutions from the beginning of the French Revolution through the Revolution of 1848. *Prerequisite:* 6 hours of history with HIST 2332 recommended.

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:* 6 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:* 6 hours of history with HIST 2332 recommended.

HIST 4395 Special Topics in Historical Study [3-0]*As Scheduled*

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 topics change. *Prerequisite:* 6 hours of history.

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:* 9 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:* 9 hours of history, including either 2331 or 2332.

**HIST 4398 Special Topics in
Latin American History [3-0]***As Scheduled*

A study of selected topics in Latin American history. Topics are varied according to availability of faculty and student interest. Course can be repeated once for credit as topics change. *Prerequisite:* 9 hours of history, including either 2331 or 2332.

Health

**HLTH 1352 Community and Environmental
Health [3-0]***As Scheduled*

Basic community health problems with emphasis upon communicable disease, waste disposal, safe water, food and drug control and the improvement of community health.

HLTH 1354 Safety and First Aid [3-0]*As Scheduled*

Basic knowledge for safe and effective living. The essential aspects of home, work, motor vehicle and public safety. Includes both theoretical and practical aspects of emergency care. Standard First Aid and Personal Safety and Cardio-Pulmonary 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 2371 Health Problems in the
Use of Alcohol, Tobacco
and Narcotics [3-0]***As Scheduled*

Examination of the psychological, physiological and social effects of the misuse of drugs and other harmful agents. Legal and ethical implications for the individual and society.

HLTH 2372 Nutrition and Health [3-0]*As Scheduled*

Study of food constituents relating to human nutritive needs and sources through the span of life, infancy through later adulthood.

**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 3373 Human Sexuality [3-0]*As Scheduled*

Adjustment of the individual to life in the social group with emphasis upon problems occurring in mental and emotional health, aging, family living and human sexuality.

HLTH 3374 Chronic and Degenerative Disease [3-0]
As Scheduled

A study of chronic and degenerative disease with respect to the nature, source, incidence, control and treatment of diseases such as cancer, cardio-vascular anomalies, neurological disorders, mental retardation and genetic disorders. Emphasis is upon providing sufficient and usable information that will provide the basis for responsible action in matters of personal health.

HLTH 3375 Consumer Health [3-0]
As Scheduled

Selection, evaluation and understanding of health information, medical services, health product and advertising and socio-cultural factors in consumer health protection.

HLTH 4350 Organization of the Health Program [3-0]
As Scheduled

The organization and management of the health program in school, community and clinical settings with special emphasis on program phases, responsibilities, evaluation and functional relationships with local, state and federal agencies. *Prerequisite:* 15 hours of health.

HLTH 4353 Principles of Public Health [3-0]
As Scheduled

Examination of the role and practice of official or voluntary health agencies. Content includes study of health needs, assessment, models for health promotion, program evaluation, basic issues and management/funding methods achieved. University classroom and field-based experiences.

HLTH 4357 Health Seminar [3-0]
Summer, odd years

For teachers, nurses, principals, superintendents and community leaders to gain perspective and insight into essential cooperative efforts of home, school and community to meet the growing health needs of our society.

HLTH 4358 Current Health Readings and Reported Research [3-0]
As Scheduled

Research and analysis of the latest concepts and findings relating to the school health program. This will be conducted through review of the literature, written reports and independent study in a health-substantive area.

Honors**HONR 2387 Humanities I [3-0]**

An interdisciplinary course that emphasizes cultural roots from ancient Greece through the Middle Ages. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western civilization framework.

HONR 2388 Humanities II [3-0]

An interdisciplinary course that emphasizes cultural roots from the Renaissance to the present. The course stresses the integration of the humanities (philosophy, painting, sculpture, architecture, literature, music) into the Western civilization framework.

HONR 3187 Problems in Independent Study [3-0]

This course is an introduction to basic problems encountered in independent study. It aids the student in choosing a topic for independent study, in setting up objectives for the study and preparing a research proposal or project.

HONR 3387 Independent Study [3-0]

Supervised independent research in student's topic, with periodic meetings for coordination, instruction in methodology and discussion.

HONR 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.

◆ Departmental Courses, Honors

(See Course Listings for course descriptions.)

Biology: BIOL 1487, 1488 General Biology

Communication: COMM 1387 Speech Communication
COMM 2387 Theatre Appreciation

Economics: ECO 1387 Introduction to Economics

English: ENG 1387 Rhetoric and Composition
ENG 1388 Rhetoric and Literature
ENG 2387, 2388 Readings in World Literature

French: FREN 1387, 1388 Beginning French

History: HIST 2387, 2388 American Heritage

Mathematics: MATH 2387 Problems and Statistics
MATH 1487 Calculus

Philosophy: PHIL 1387 Introduction to Philosophy
PHIL 1388 Introduction to Logic

Political Science: POLS 2387, 2388 U.S. and Texas
Government and Politics

Sociology: SOCI 1387 Principles of Sociology

Spanish: SPAN 1387, 1388 Beginning Spanish

Health-Related Programs

◆ Interdisciplinary Courses

HRP 1301 Introduction to Health Careers [3-0]
Fall, Spring

This course will survey careers in the health and health-related professions. Specific topics related to health careers will include health care organizations, history and trends, ethics, legal aspects, terminology, relevant professional affiliations and vocational trends. Employment options and educational requirements will be covered in some depth.

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.

HRP 3310 Special Topics in Patient Care Issues [3-0]

As Scheduled

The topics will vary according to current issues in the provisions of health care and prevention. Offering, of course, will be contingent on student demand. May be repeated once for credit as topics vary. *Prerequisite:* Approval of department.

International Business

INTB 3310 Entering International Trade [3-0]
Fall, Spring

Introduction to import and export procedures and processes. Sources of data and acquisition of information concerning the country, its culture, business practices and businesses. Accessing markets in, and sources of supply from, foreign countries. *Prerequisite:* INTB 3330.

INTB 3330 International Business [3-0]
Fall, Spring, Summer

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. *Previous course number:* GENB 4330; credit may be received for only one course. *Prerequisites:* MANA 3361, MARK 3371 and FINA 3383.

INTB 4364 Management Environment in International Business [3-0]

Fall, Spring

Organizational planning, organizing, including staffing, communication and controlling in an international environment. How these functions of management are affected by, and may need to be adapted for, the social/cultural, economic, legal and political environments. The process of individual negotiation and the impact of culture and business practices on that process. Reference to selected cultures and practices to include Asia, Western Europe and Latin America. *Prerequisite:* INTB 3330.

INTB 4365 International Competitiveness [3-0]
Fall, Spring

International dimensions of competition for global markets, with emphasis on manufacturing, production and operations management as tools of international competitive strategy. *Prerequisite:* MANA 4363.

INTB 4379 Topics in International Business [3-0]
As Scheduled

Special topics in international business as selected by the instructor. Additional topics to be added. Course can be repeated as topics change. *Prerequisite:* INTB 3330.

INTB 4367 International Transportation and Logistics

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.

Japanese**JAPN 1351 Beginning Japanese [3-0]**

As Scheduled

An introductory course in Japanese designed to teach basic knowledge of the Japanese language, including speaking, writing, listening and reading.

JAPN 1352 Beginning Japanese [3-0]

As Scheduled

A continuation of JAPN 1351. Designed to teach basic knowledge of the Japanese language, including speaking, writing, listening and reading.

Kinesiology**◆ Activity Courses**

There is a \$6 activity fee for each class unless otherwise indicated.

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------|-------|
| KIN | 1200 | Swimming | [2-0] |
| KIN | 1201 | Fitness and Motor Development | [2-0] |
| KIN | 1210 | Basic Karate | [2-0] |
| KIN | 1211 | Intermediate Karate | [2-0] |
| KIN | 1215 | Taichi | [2-0] |
| KIN | 1220 | Backpacking | [2-0] |
| KIN | 1221 | Camping and Hiking | [2-0] |
| KIN | 1230 | Wrestling | [2-0] |
| KIN | 1250 | Soccer | [2-0] |
| KIN | 1255 | Softball | [2-0] |
| KIN | 2202 | Volleyball | [2-0] |
| KIN | 2203 | Badminton I | [2-0] |
| KIN | 2204 | Tennis I | [2-0] |
| KIN | 2206 | Weight Training I | [2-0] |
| KIN | 2207 | Track and Field | [2-0] |
| KIN | 2208 | Gymnastics | [2-0] |
| KIN | 2213 | Badminton II | [2-0] |
| KIN | 2216 | Weight Training II | [2-0] |
| KIN | 2221 | Basketball | [2-0] |
| KIN | 2223 | Spanish Dance | [2-0] |
| KIN | 2225 | Folk and Square Dance | [2-0] |
| KIN | 2226 | Modern Dance | [2-0] |
| KIN | 2230 | Jazz Dance | [2-0] |
| KIN | 2232 | Aerobic Dance | [2-0] |
| KIN | 2233 | Aerobic Dance II | [2-0] |
| KIN | 2235 | Mexican Folkloric Dance | [2-0] |
| KIN | 2236 | Ballet | [2-0] |
| KIN | 2241 | Racquetball I | [2-0] |
| KIN | 2242 | Racquetball II | [2-0] |
| KIN | 2256 | Tennis II | [2-0] |
| KIN | 2257 | Golf | [2-0] |
| 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 \$10. (Subject to change) | | | |
| KIN | 2258 | Archery | [2-0] |

KIN 2259 Bowling [2-0]

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 2264 Fencing [2-0]**KIN 2280 Lifeguard Training [2-0]**

Prerequisite: KIN 2252 or current emergency water safety training.

KIN 2281 Water Safety Instruction [2-0]

Prerequisite: KIN 2280 or current lifeguard training or emergency water safety training.

KIN 2282 Scuba Diving [2-0]

Fee must be paid to outside vendor. At the time of publication of this catalog, the fee was \$200. (Subject to change)

◆ Theory Courses

KIN 1351 Introduction to Kinesiology [3-0]

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 Cardio-Pulmonary Resuscitation (CPR). Certification upon completion of specific requirements. *Equivalent Course:* HLTH 1354; a student may receive credit for only one course.

KIN 2301 Health-Related Physical Fitness Appraisal [3-0]

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 4 hours of required kinesiology activities. Fulfills General Education Requirements; see page 91-93 for details.)

KIN 3300 Theory of Football [3-0]

As Scheduled

A study of and participation in the fundamentals and techniques, rules and strategies of football.

KIN 3302 Teaching Individual Sports [3-0]

As Scheduled

The current theories of teaching selected individual/dual sports.

KIN 3303 Theory of Basketball [3-0]

As Scheduled

A study of and participation in the fundamentals, techniques, rules and strategies of basketball.

KIN 3304 Theory of Baseball [3-0]

As Scheduled

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals in baseball.

KIN 3305 Theory of Track and Field [3-0]

As Scheduled

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals in track and field.

KIN 3310 Modified Team and Individual Sports [3-0]

As Scheduled

Analysis and presentation of sports in a modified form appropriate for the elementary school.

KIN 3312 Dance Activities for Adolescents [3-0]

As Scheduled

Analysis of skill and techniques in teaching social, folk and square dance.

KIN 3313 Dance for Children [3-0]

As Scheduled

Analysis of skills and techniques in teaching creative dance and folk dance for the elementary school.

KIN 3317 Theory and Performance of Gymnastics [3-0]

As Scheduled

Development of the basic techniques and performance skills of tumbling and gymnastic apparatus.

KIN 3319 Tumbling and Gymnastics [3-0]
As Scheduled

Analysis of skills and techniques in teaching basic tumbling and gymnastics.

KIN 3320 Theory of Volleyball [3-0]
As Scheduled

A study involving the use of theory in the analysis and interpretation of coaching techniques and fundamentals of volleyball.

KIN 3333 Theory of Soccer [3-0]
As Scheduled

A study of the use of theory in the analysis and interpretation of coaching techniques and fundamentals in soccer.

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.

KIN 3352 Care, Treatment and Prevention of Athletic Injuries [3-0]
As Scheduled

Prevention and correction of accidents in physical education and athletic activities. The use of proper personal and field equipment, support methods, conditioning exercises, therapeutic aids, medical examinations and massage.

KIN 3353 Physiology of Exercise [3-0]
As Scheduled

Basic systemic adaptations to exercise with specific emphasis on teaching kinesiology and on training and conditioning athletes. *Prerequisite:* KIN 3345.

KIN 3356 Movement Exploration [3-0]
As Scheduled

A course structured to acquaint students with the essential elements of kinesiology. The underlying techniques of movement exploration are presented.

KIN 3365 Tests and Measurements in Kinesiology [3-0]
As Scheduled

The use, interpretation, evaluation and administration of valid tests in kinesiology. Also involves the application of elementary statistical procedures.

KIN 4313 Kinesiology Workshop [3-0]
As Scheduled

This course is designed to give a student experience in research or in-depth study/readings in a substantive area not normally covered within standard courses. Course topics will vary according to student interest. May be repeated for credit with different topics.

KIN 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. Laboratory experience to be arranged. Field-based.

KIN 4664 Kinesiology Practicum [3-0]
As Scheduled

University work and field placement in a public and/or private setting where student learns the theory and practice of operating a wellness establishment. Six to nine hours of field work per week. May not be used to satisfy teacher certification.

Management

MANA 1331 Introduction to Business [3-0]
Fall, Spring, Summer

A survey of the field of business and industry in our economic system. Basic principles of business organization and the information and operation of the several divisions of a business concern: finance, production, marketing and personnel. Designed to acquaint the beginning student with the problems, procedures and practices of modern business.

MANA 3300 Internship in Management [3-0]
As Scheduled

This course is designed to give students an opportunity to gain real world experience in their chosen career field by working with a participating employing firm or organization. The students will be supervised by a faculty member acting as a liaison between the employing organization and the academic department to assure compliance with specific learning and experience requirements for the assignment. The employment can be either paid or unpaid, and must be at least 10 hours of work each week over the period of one academic term. *Prerequisites:* Upper-division

standing and approval by both department chair and employer providing internship experience.

MANA 3335 Communication Policy and Strategy [3-0]

Fall, Spring, Summer

Course focuses on communication policy and practice as contributor to the effectiveness and efficiency of organizational operation 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. *Prerequisite:* CIS 1301 or equivalent. Satisfaction of general requirements for freshman English.

MANA 3361 Principles of Management and Organizational Behavior [3-0]

Fall, Spring, Summer

A study of the management functions of planning, organizing, leading and controlling. Emphasis is placed on organizational theory and behavior to include culture and ethics. *Prerequisite:* CIS 1301 or equivalent

MANA 3362 Human Resource Management [3-0]

Fall, Spring, Summer

This class focuses on the current developments within the field of personnel administration. Students will study the concepts, principles, policies and organizational procedures utilized by business institutions in the management of personnel that includes: selection, placement, compensation, morale, labor turnover, collective bargaining, employee service and supervisory activities. *Prerequisite:* MANA 3361 or consent of department.

MANA 3364 Organizational Theory [3-0]

Fall, Spring

This course studies the theory and process of designing, utilizing and evaluating organizational structures. It includes the design of appropriate jobs which will fit into the organizational structure as well as adapting the organizational design to the operational and environmental demands of the organization. *Prerequisite:* MANA 3361.

MANA 3365 Compensation [3-0]

Fall, Spring

This course presents the principles and practices of the determination of relative values of jobs and their

application to basic wage and salary structure. The class includes the formulation of a job evaluation plan and its accompanying wage structure. *Prerequisites:* ECON 2301 and 2302; MANA 3361 and MANA 3362 or consent of department.

MANA 3366 Recruitment and Selection [3-0]

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:* QUMT 3342.

MANA 3367 Organizational Training and Development [3-0]

This course is designed to provide students with the fundamental aspects of training as well as hands-on practical experience in developing training programs for organizations. The primary focus of this course deals with aiding students in developing the skills necessary to deliver training and development sessions that can be applied in organizations in order to meet the needs of the fast-paced, information-generating corporate environments that are necessary in firms today. A major emphasis will be on skill development in regard to the design and delivery of training that is both efficient and cost effective to the organization.

MANA 4300 Topics in Management [3-0]

On Demand

A course of supervised independent study and research into management theory and practice. *Prerequisite:* 9 semester hours of management courses with at least a 3.0 GPA in these courses.

MANA 4361 Organizational Behavior [3-0]

Fall, Spring

This course focuses on the study of management theory with emphasis on the investigation of individual and group behaviors within organizations. *Prerequisite:* MANA 3361 or consent of department.

MANA 4362 Small Business Venture [3-0]

Fall, Spring

This course explores ways to own a business, including starting a new business and acquiring a franchise or

existing business. The student will also study the various federal, state and local institutions that cater to the needs of small business development. Students will be required to complete a term project involving the steps required to start or buy a small business.

MANA 4363 Production Management [3-0]
Fall, Spring, Summer

The concept of the production function and its applicability to all types of business firms, problems that provide background for the integration of scientific decision processes relative to an analysis of production activities and computer applications in the production/operations environment. *Prerequisites:* QUMT 3342 and MANA 3361.

MANA 4364 Societal Problems in Business [3-0]
Fall, Spring

The behavior and social responsibilities of business firms and other business institutions in modern society to include current cultural and ethical issues. *Prerequisite:* MANA 3361.

MANA 4366 Small Business Management [3-0]
Fall, Spring

A study of the special characteristics of small business. Emphasis will be placed on the selecting and starting of a small business and the essential function of management in the first years of operation. *Prerequisites:* Senior standing in business or entrepreneurship minors: ACC 2421, MANA 3361 and 3 hours of Economics.

MANA 4367 Purchasing and Supply Management [3-0]

A study of the integration and coordination of activities, such as purchasing, outsourcing, materials management, logistics, supplier selection, global sourcing, and international distribution, to create an effective flow of materials and information from suppliers to customers.

MANA 4368 Industrial Relations [3-0]
Fall, Spring

An examination of current issues and problem areas facing management and unions in their relationship with employees, government and the community. Emphasis is placed on the role of union and management in the process, on the relationship of this process to contemporary labor legislation, contract negotiations and daily administration of company and union relations. *Prerequisites:* MANA 3361 and MANA 3362 or consent of the department.

MANA 4369 Strategic Management [3-0]
Fall, Spring, Summer

This capstone course integrates knowledge in functional areas and covers strategy formulation, implementation and evaluation. Different types of organizations in all kinds of environments and industries are studied. Technology, culture and ethics are important environmental variables considered. *Prerequisites:* MANA 3361, MANA 4363, MARK 3371 and FINA 3383 and INTB 3330.

MANA 4399 Business Consulting [3-0]
On Demand

This course is an on-site evaluation of an operating business by a student or students serving in the role as a consultant or consulting team. Course emphasis will be directed toward an analysis of the basic business functions of accounting, finance, production, marketing and management as they pertain to the successful operation of a business. *Prerequisites:* Senior standing and consent of department.

Manufacturing Engineering

MANE 2101 Manufacturing Technology Laboratory [3-0][0-3]

Fall, Summer

Introduction to machine shop tool operations, metrology, advanced laboratory skills and data analysis. *Prerequisites:* Sophomore standing and MECE 1221.

MANE 2340 Fundamentals of Industrial Engineering [3-0]

Fall

Introduction to engineering economic analysis, industrial and project management, ergonomics, human factors, work recording techniques, time and motion study and line balancing. *Prerequisites:* Sophomore standing or consent of instructor.

MANE 2430 Manufacturing Processes [3-3]
Fall

An introduction to manufacturing processes including metal cutting, nontraditional machining, force analysis, casting, deformation and joining processes, plastics, composites, manufacturing of ceramics and electronic

devices. *Prerequisite:* MECE 2440. \$30 laboratory fee.

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. *Prerequisites:* Junior standing or consent of instructor.

MANE 3164 Manufacturing Processes Lab [0-3]

Fall and 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]

Spring

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. *Prerequisites:* 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 3332 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 1401.

MANE 3337 Engineering Economics [3-0]

Spring

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 3332.

MANE 3364 Manufacturing Processes [3-0]

Fall and Spring

An introduction to manufacturing processes including metal cutting, nontraditional machining, force analysis, casting, deformation and joining processes, plastics, composites, manufacturing of ceramics and electronics devices. *Prerequisite:* MECE 2440.

MANE 4301 Robotics [3-0]

As Scheduled

Introduction to matrix transformation. Study of kinematics, trajectory planning, dynamics and control of robotics. Application of robots for automated manufacturing, assembly and materials handling. *Prerequisite:* Consent of instructor.

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 3332.

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]*As Scheduled*

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:* Consent of Instructor.

MANE 4346 Introduction to Plastics Engineering [3-0]*As Scheduled*

Emphasis on important relationships between material's properties (physical and chemical), the molding process, the design process and the performance of finished products. *Prerequisite:* MECE 2440.

MANE 4352 Manufacturing Simulation [3-0]*Spring*

Develops skills in applying discrete computer simulation and modeling techniques for facility layout design and production planning. Topics include data collection, input analysis, distribution fitting, model development, verification and output analysis. *Prerequisite:* MANE 3332.

MANE 4365 Tool Design [3-0]*As Scheduled*

Covers topics on tool design methods, locating and clamping methods, design of jigs and fixture, gauges and gauge design, die design and mold design. *Prerequisites:* MANE 3364 and MANE 3300.

Marketing

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:* ECON 2302, CIS 1301 or equivalent.

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 or consent of instructor.

MARK 3373 Industrial Marketing [3-0]*As Scheduled*

A comprehensive study of marketing in other than the retail area. Topics include wholesale institutions, their competitive positions and strategies; channels of distribution; physical distribution; marketing to industrial consumers and industrial buying behavior. Readings, cases and special projects. *Prerequisite:* MARK 3371 or consent of the instructor.

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 or consent of instructor.

MARK 3376 Professional Salesmanship [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. Practical applications of selling in the form of structured class presentations with an emphasis on consultative selling. *Prerequisite:* MARK 3371 or consent of instructor.

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

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MARK 4372 Promotions Management [3-0]
As Scheduled

Management of the promotional mix. Analysis and application of advertising and sales promotion methods through mass communication and management of the sales force for both consumer and industrial goods. *Prerequisite:* MARK 3371 or consent of instructor.

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 4377 Marketing Management [3-0]
Spring

Emphasis on acquiring a knowledge of various 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 application of techniques emphasized. *Prerequisite:* MARK 3371.

MARK 4378 Marketing Research [3-0]
Fall, Spring

Quantitative research procedures and techniques used in business today. Problem definition, sources of research data, survey methods, questionnaire design and sampling techniques. Practical application of procedures and techniques is emphasized through class research projects. *Prerequisites:* QMT 3342 and MARK 3371.

MARK 4379 Special Problems in Marketing [3-0]
As Scheduled

In-depth study of specific problems in marketing. A weekly conference is scheduled with the supervising faculty member. *Prerequisites:* 12 hours in Marketing and consent of instructor.

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, elementary inequalities, exponent properties, introduction to radicals, 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 general University graduation requirements.

MATH 1321 Business Algebra [3-0]
As Scheduled

This course is designed for students who plan to major within the College of Business Administration. 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 electronic calculators and microcomputers to perform numerical computations is emphasized. Previous Course Number: MATH 2316. A student may use MATH 1321 to replace a grade received in MATH 2316; however, one may receive credit for only one of MATH 1321, MATH 2316 or MATH 1340. *Prerequisite:* MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam.

MATH 1322 Business Calculus [3-0]
As Scheduled

This course is designed for students who plan to major within the College of Business Administration. Topics include differential calculus with business optimization applications, multivariable calculus including optimization techniques and applications and an introduction to integral calculus. *Prerequisite:* MATH 1321 or MATH 2316 with a grade of "C" or better.

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 functions; systems of linear equations in two unknowns; quadratic, rational and radical equations with applications. *Previous Course Number:* MATH 1335. *Prerequisite:* MATH 1300 with a grade of "C" or better or satisfactory score on the ACT. This course does not count toward a student's hours for graduation or in the determination of hours attempted or earned.

MATH 1340 College Algebra [3-0]
As Scheduled

Topics include nonlinear and absolute value inequalities, functions, complex numbers, polynomial and rational functions, exponential and logarithmic functions, systems of linear and nonlinear equations, and matrices. *Grade Replacement and Credit Restrictions:* This course replaces a grade received in MATH 1304, MATH 2316 or MATH 1321; however, one may receive credit for only one of the following: MATH 1304, MATH 1340, MATH 1387, MATH 2316 or MATH 1321. *Prerequisite:* MATH 1334 with a grade of "C" or better or satisfactory score on ACT or placement exam.

MATH 1356 Trigonometry [3-0]
As Scheduled

Topics include circular functions, identities, special angles, trigonometric equations and graphs. *Previous Course Number:* MATH 1305; credit may be received for only one course. *Prerequisite:* MATH 1340 or its equivalent with a grade of "C" or better or satisfactory score on ACT or placement exam.

MATH 1357 Precalculus Mathematics [3-0]
As Scheduled

Topics include transcendental functions, analytic geometry, conic sections, sequences and series. *Prerequisite:* MATH 1356 with a grade of "C" or better or appropriate high school background and/or placement scores.

MATH 1401 Calculus I [4-0]
As Scheduled

Topics include limits, the derivative and its applications, antiderivatives, definite integrals, and the derivatives and integrals of transcendental functions. *Credit Restriction:* A student may not receive credit for both MATH 1360 and MATH 1401. *Prerequisite:* MATH 1357 with a grade of "C" or better or appropriate high school background and placement scores.

MATH 1402 Calculus II [4-0]
As Scheduled

Topics include methods and applications of integration, parametrized curves, integration in polar coordinates, and infinite sequences and series. *Credit Restriction:* A student may not receive credit for both MATH 2342 and MATH 1402. *Prerequisite:* MATH 1401 with a grade of "C" or better or appropriate high school background and placement scores.

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. *Credit Restrictions:* A student may receive credit for only one of the following: MATH 1360, MATH 1401, MATH 1487. *Prerequisites:* MATH 1357 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 the 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. *Credit Restrictions:* A student may receive credit for only one of the following: MATH 1370, MATH 1402, MATH 1488. *Prerequisites:* MATH 1487 (or MATH 1401) with a grade of "C" or better or appropriate high school background and placement scores, together with admission to the honors program or consent of the instructor.

MATH 2306 Foundations of Mathematics I [3-0]
As Scheduled

Students study the mathematical background for 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. *Previous Course Number:* MATH 1314; a student may use MATH 2306 to replace a grade recorded in MATH 1314; however, one may not receive credit for both MATH 1314 and MATH 2306. *Prerequisite:* MATH 1340 with grade of "C" or better or satisfactory score on ACT or placement exam.

MATH 2307 Foundations of Mathematics II [3-0]*As Scheduled*

This course is a continuation of MATH 2306. Topics include measurement, geometry, probability, statistics, elementary algebra and problem solving. *Previous Course Number:* MATH 1315. A student may use MATH 2307 to replace a grade received in MATH 1315; however, one may not receive credit for both MATH 1315 and MATH 2307. *Prerequisite:* MATH 1340 with a grade of "C" or better and MATH 2306 with a grade of "C" or better.

MATH 2330 Survey of Elementary Statistics [3-0]*As Scheduled*

This course is intended to provide the student with an elementary overview of the mathematical nature and uses of descriptive 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 2345 Elementary Linear Algebra [3-0]*As Scheduled*

Topics include 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. *Previous Course Number:* MATH 2304. A student may use MATH 2345 to replace a grade received in MATH 2304; however, one may not receive credit for both MATH 2304 and MATH 2345. *Prerequisite:* MATH 1401 with a grade of "C" or better.

MATH 2346 Mathematics for Electrical Engineers [3-0]*As Scheduled*

This course covers the essentials of matrix theory, discrete mathematics, and numerical methods needed for majors in Electrical Engineering. Topics include Gauss-Jordan elimination, matrix algebra, determinants, graphs, trees, combinatorics, root finding algorithms, numerical differentiation, numerical integration, and numerical matrix methods. *Prerequisites:* CSCI 1380 with a grade of "C" or better. *Co-requisite:* MATH 1402.

MATH 2401 Calculus III [4-0]*As Scheduled*

Topics include vectors, calculus of several variables, partial derivatives, multiple integrals and vector calculus including the Divergence Theorem and Stoke's Theorem. *Credit Restriction:* A student may not receive credit for both MATH 3347 and MATH 2401. *Prerequisite:* MATH 1402 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 1402.

MATH 3304 Geometry [3-0]*As Scheduled*

This course studies Euclidean and non-Euclidean geometries focusing on axiomatic systems with the purpose of developing students' understanding of the ability to create mathematical proofs. *Prerequisite:* MATH 2345 with a grade of "C" or better.

MATH 3310 Foundations of Mathematical Problem Solving [3-0]*As Scheduled*

This course studies the cognitive and affective aspects of problem solving models, heuristics and strategies. Applications are drawn from many fields including but not limited to arithmetic, algebra, geometry and number theory. Discovering how to get the most out of one's mathematical knowledge and reasoning ability when transferring to new and/or difficult problematic situations is a fundamental aim of this course. *Prerequisite:* MATH 2307 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 1402.

MATH 3312 Foundations of Measurement and Informal Geometry [3-0]

As Scheduled

An in-depth study of measurement and informal geometry. Topics will include length, area, volume, the metric system, transformations, symmetry, congruency, similarity and coordinate systems. *Prerequisite:* MATH 2307 with a grade of "C" or better.

MATH 3313 Foundations of Algebraic Structures [3-0]

As Scheduled

Algebraic concepts and structures will be examined with an emphasis on the group and field properties. *Prerequisite:* MATH 2307 with a grade of "C" or better.

MATH 3315 Foundations of Probability and Statistics [3-0]

As Scheduled

An in-depth study of probability and statistics. Topics include constructing and interpreting tables, graphs and charts; descriptive measures; and elementary concepts of probability. *Prerequisite:* MATH 2307 with a grade of "C" or better.

MATH 3316 Foundations of 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. Topics include algebraic and geometric patterns, functions, iterative and recursive processes, and probabilistic and statistical models. *Prerequisite:* MATH 2307 with a grade of "C" or better.

MATH 3319 Mathematical Foundations of 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 structures and processes of mathematics. *Prerequisite:* MATH 2307 with a "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 and Previous Course Information:* This course replaces MATH 3308 and is the same as STAT 3337. A student may use MATH 3337 to replace a grade received in MATH 3308; however, one may receive credit for only one of MATH 3308, MATH 3337 and STAT 3337. *Prerequisites:* Junior standing and either MATH 1340 or MATH 1321. 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. *Prerequisite:* MATH 3337 or STAT 3337.

MATH 3349 Differential Equations [3-0]

As Scheduled

A study of ordinary differential equations and applications. *Prerequisite:* MATH 1402 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 1401; CSCI 1380 or CSCI 2325 or consent of instructor.

MATH 3373 Discrete Structures [3-0]

As Scheduled

This course is an introduction to discrete mathematics, studying enumeration, lattices, graphs and other topics in combinatorics. Particular emphasis is given to those structures applicable in computer science. *Previous Course Number:* MATH 4373. A student may use MATH 3373 to replace a grade received in MATH 4373; however, credit may be received for only one course. *Prerequisite:* MATH 1401 or MATH 1322.

MATH 4302 Theory of Numbers [3-0]*As Scheduled*

This course includes the binomial theorem, the division algorithm, the Euclidean algorithm, diophantine equations, primes and their distribution, congruencies, and number-theoretic functions. *Prerequisite:* MATH 2345.

MATH 4317 Complex Analysis [3-0]*As Scheduled*

This course is an introduction to the theory of functions of a complex variable with basic techniques and some applications. Topics include complex numbers and the extended complex plane, elementary functions of a complex variable, differentiation, conformal mappings, contour integration, Cauchy's theorem, Cauchy's formula, Taylor and Laurent series, and residue theory. *Prerequisite:* MATH 2401.

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.

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.

MATH 4339 Probability and Statistics [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 1402 with a grade of "C" or better.

MATH 4351 Modern Algebra [3-0]*As Scheduled*

This course provides an introduction to algebraic structures. Topics are to be taken from groups, rings and fields. *Prerequisite:* MATH 2345 with a grade of "C" or better.

MATH 4357 Real Analysis [3-0]*As Scheduled*

This course presents a rigorous introduction to the elements of real analysis. Topics include sequences, series, functions, limits, continuity and derivatives. *Prerequisite:* MATH 2401.

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 2401.

MATH 4364 Special Problems in Mathematics [3-0]*As Scheduled*

This course covers special undergraduate topics in mathematics that are not taught elsewhere in the department. May be repeated for credit. *Prerequisite:* Consent of instructor.

MATH 4379 Special Problems in Applied Mathematics [3-0]*As Scheduled*

This course covers special undergraduate topics in applied mathematics that are not taught elsewhere in the department. May be repeated for credit when topic is different. Previous Course Number: MATH 4311. A student may use MATH 4379 to replace a grade received in MATH 4311; however, credit may be received for only one course. *Prerequisite:* Consent of instructor.

Mechanical Engineering

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. *Prerequisite:* Computer literacy. \$20 laboratory fee.

MECE 2303 Statics [3-0]

(Texas Common Course Number is ENGR 2301.)

Fall, Spring

The study of forces, moments, friction, centers of mass, gravity and pressure using the equations of equilibrium in vector algebraic and calculus forms. *Prerequisites:* MATH 1401 and credit for or enrollment in MATH 1402.

MECE 2304 Dynamics [3-0]

Fall, Spring

Kinematics, dynamics, work-energy and impulse-momentum methods applied to engineering problems involving particles and rigid bodies. *Prerequisite:* MECE 2303.

MECE 2335 Thermodynamics I [3-0]

Fall, Spring

Classical thermodynamics with primary emphasis on application of the first and second laws of thermal systems. Introduction to physical and chemical equilibria. *Prerequisite:* MATH 1402.

MECE 2405 Engineering Mechanics [3-3]

Fall, Spring

Force vectors; free body diagrams; engineering applications of equilibrium; centroids; moment of inertia; kinematics and kinetics applied to engineering problems involving particles and rigid bodies. *Prerequisite:* MATH 1402.

MECE 2440 Engineering Materials [3-3]

Fall, Spring

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, ceramic and polymeric materials. Topics in corrosion. *Prerequisite:* CHEM 1301 and CHEM 1101. \$15 laboratory fee.

MECE 3304 Introduction to Dynamic Systems [3,0]

This course is an introduction to systems modeling and analysis for electrical, mechanical, fluid, thermal, and chemical systems. The focus is on modeling a system, deriving the governing equations, and determining the systems response. Transient and steady-state responses are examined. Systems stability and control issues are addressed. *Prerequisites:* MECE 2304, MECE 2335, PHYS 2302, and MATH 3349.

MECE 3115 Fluid Mechanics Laboratory [0-3]

Spring

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. \$25 laboratory fee.

MECE 3160 Heat Transfer Laboratory [0-3]

Fall

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. \$15 laboratory fee.

MECE 3315 Fluid Mechanics [3-0]

Spring

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:* MECE 2335, MATH 2401 and MATH 3349.

MECE 3320 Measurements and Instrumentation [2-3]

Fall

Fundamentals of measurement systems; standards; treatment of data; statistics; uncertainty analysis, data acquisition; transducers; strain; force, acceleration; pressure; temperature; fluid flow. *Prerequisites:* PHYS 2302, MATH 3349 and credit for or enrollment in ELEE 3305. \$30 laboratory fee.

MECE 3321 Mechanics of Solids [3-0]

Fall, Spring

Internal forces and deformation in solids; stress and strain in elastic and plastic solids; applications to beams, columns, a variety of engineering problems and introduction to computer modeling. *Prerequisites:* MECE 2303 or MECE 2405 and credit for or enrollment in MATH 2401 and PHYS 2301. \$15 laboratory fee.

MECE 3336 Thermodynamics II [3-0]

Spring

Gas and two-phase power and refrigeration cycles. Gas mixtures, chemical reactions, chemical equilibrium. The basic laws and concepts of thermodynamics are viewed as their use is encountered in the course. *Prerequisite:* MECE 2335.

MECE 3350 Mechanical Engineering Analysis [3-0]*Spring*

Mathematical modeling and simulation of engineering systems. Introduction to the application of Fourier series and partial differential equations to a variety of engineering problems. *Prerequisite:* CSCI 2335 or CSCI 1380, MATH 2401 and MATH 3349.

MECE 3360 Heat Transfer [3-0]*Fall*

Steady and unsteady one- and two-dimensional heat conduction. Forced and free convection, radiation, heat exchangers. *Prerequisites:* MECE 2335, MECE 3315 and credit for or enrollment in MECE 3350.

MECE 3380 Kinematics and Dynamics of Machines [3-0]*Spring*

Kinematic and dynamic modeling and analysis of mechanisms and machines; study of machine components such as linkages, cams, gears, gear trains and differentials. *Prerequisites:* PHYS 2301 and MECE 2304.

MECE 3385 Mechanical Vibrations [3-0]*As Scheduled*

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:* MATH 2401, MATH 3349, MECE 2321 and MECE 2304.

MECE 4321 Intermediate Mechanics of Solids [3,0]

The topics covered in this course include: energy methods in mechanics, non-systematic bending, shear center, elastic-plastic bending and torsion, torsion and bending of general cross-sections, and column buckling. *Prerequisites:* MECE 3321, MATH 3349.

MECE 4322 Introduction to the Practice of Finite Elements [3,0]

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. \$25 lab fee. *Prerequisites:* MECE 3321, MECE 3350.

MECE 4323 Introduction to Combustion Engineering [3,0]

Role of combustion in Energy, Environment and Fire Problems Thermochemistry; Fuels (Gas, Liquid and Solid); Chemical Kinetics; Combustion of Gaseous and Vaporized Fuels (Flames); Pollutant Emissions; Modern Measurements. *Prerequisites:* MECE 2335.

MECE 4324 Energy Systems, Analysis and Design [3,0]

This course deals with the analysis, design and simulation of practical energy systems including: Piping systems, Heat Exchangers, Pumps, Fans, and Nozzles. *Prerequisites:* MECE 2335, MECE 3315, MECE 3360 (or co-requisite)

MECE 4326 Classical Control, Theory and Applications [3,0]

Classical control techniques will be investigated with respect to time and frequency domain for time invariant linear systems. These approached include Bode and Nyquist plots, Nichols charts, and root locus analysis for improved behavior of physical processes and machinery. *Prerequisites:* Senior standing in Mechanical Engineering.

MECE 4327 Intermediate Materials Engineering [3,0]

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:* MECE 2440, CHEM 1402.

MECE 4328 Introduction to Plastics Engineering [3,0]

Emphasis on important relationships between material's properties (physical and chemical), the modeling process, the design process, and the performance of finished products. *Prerequisites:* MECE 2440.

MECE 4329 Metallurgy of Engineering Alloys [3,0]

Coverage of the important microstructures and properties in the commercially significant metal alloys. Topics include binary and ternary phase diagrams, heat treating, microstructural analysis, and engineering properties of steel, aluminum, nickel, and other non-ferrous metals. *Prerequisites:* MECE 2440, CHEM 1402.

MECE 4345 Composite Material Design [3-0]*As Scheduled*

An introduction to the theory of mechanics of solids for elastic and viscoelastic composite materials. Emphasis on analysis and design of structural laminate composite including failure mechanism, e.g., fatigue, delamination and dynamics of composites including effective moduli and material damping. *Prerequisites:* MECE 2321 and MECE 2440.

MECE 4350 Machine Elements [3-0]*Fall*

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:* MECE 2304, MECE 2440 and MECE 2321.

MECE 4365 Heating, Air Conditioning and Refrigeration Design [3-0]*As Scheduled*

Heating, ventilation and air conditioning of buildings for human comfort or industrial processes; design selection, construction equipment and refrigeration systems. *Prerequisites:* MECE 3315 and credit for or enrollment in MECE 3360.

Music

MUS 1101/3102 Guitar Ensemble*Fall, Spring*

Instrumental music organization open by audition to students who play guitar. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 1103/3104 University Choir*Fall, Spring*

Vocal music organization open by audition to all University students who qualify. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 1104/3105 University Band*Fall, Spring*

Instrumental music organization open by audition to all University students who play appropriate instruments. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 1105/3106**Symphony Orchestra***Fall, Spring*

Instrumental music organization open by audition to students who play appropriate instruments. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 1107/4108**Women's Chorus***Fall, Spring*

Vocal music organization open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 1109/4110**Opera Workshop***Fall, Spring*

An organization 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 1185/3186**Applied Music Lab***Fall, Spring*

Music majors enrolled in Applied Music must register for Applied Music Lab. Each course may be repeated any number of times.

MUS 1207/3208**Jazz Ensemble***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 1208/3210**Mariachi Ensemble***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*Fall, Spring*

Piano instruction for students who have no previous training in piano. May be used to satisfy the minimum piano requirements for non-pianist music majors.

Three class hours a week. *Instructional fee:* \$10.

MUS 1222 Class Piano*Fall, Spring*

Piano instruction for students who have had MUS 1221 or equivalent. May be used to satisfy the minimum piano requirements for non-pianist music majors. Three class hours a week. *Instructional fee:* \$10.

MUS 1223 Beginners Class Voice*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 1224 Beginners Class Voice*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*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.

MUS 1226 Beginning Guitar Class II*Fall, Spring*

Continuation of MUS 1225. An acoustic instrument is required for this course. *Prerequisite:* MUS 1225.

MUS 1227 Level-Two Class Guitar*Fall, Spring*

Continuation of MUS 1226. An acoustic instrument is required for this course. *Prerequisite:* MUS 1226.

MUS 1228 Level-Two Class Guitar*Fall, Spring*

Continuation of MUS 1227. An acoustic instrument is required for this course. *Prerequisite:* MUS 1227.

Applied Music*Fall, Spring*

Private instruction in the concentration of the student's major area. Credit is earned on the basis of one half-hour lesson and one hour minimum daily practice for 2 hours credit, or two half-hour lessons per week and two hours minimum daily practice for 4 hours credit. *Applied music fee:* two-semester hour course, \$35; 4 semester hour course, \$60. Each course may be repeated four times for credit.

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|----------------------------|-----------------------|
| MUS 1231, 1431, 3232, 3432 | Applied Piano |
| MUS 1233, 1433, 3234, 3434 | Applied Voice |
| MUS 1235, 1435, 3236, 3436 | Applied Percussion |
| MUS 1237, 1437, 3238, 3438 | Applied Harp |
| MUS 1241, 1441, 3242, 3442 | Applied Trumpet |
| MUS 1243, 1443, 3444 | Applied French Horn |
| MUS 1245, 1445, 3246, 3446 | Applied Trombone |
| MUS 1247, 1447, 3248 | Applied Baritone Horn |
| MUS 1249, 1449, 3250, 3450 | Applied Tuba |
| MUS 1261, 1461, 3262, 3462 | Applied Violin |
| MUS 1263, 1463, 3264 | Applied Viola |
| MUS 1265, 1465, 3466 | Applied Cello |
| MUS 1267, 1467, 3268, 3468 | Applied String Bass |
| MUS 1269, 1469, 3270, 3470 | Applied Guitar |
| MUS 1271, 1471, 3472 | Applied Flute |
| MUS 1473, 3274, 3474 | Applied Oboe |
| MUS 1275, 1475, 3276, 3476 | Applied Clarinet |
| MUS 1277, 1477, 3278, 3478 | Applied Saxophone |
| MUS 1279, 1479, 3280, 3480 | Applied Bassoon |

MUS 1307 Music Appreciation**[3-0]***Fall, Spring, Summer*

An introductory course in the elements, forms and stylistic eras in music. This course meets the Other Humanities option (Group 4) of the General Education 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 General Education requirements, Section A. Humanities.

MUS 1313 First Year Music Theory I**[3-3]***Fall*

Intervals, scales, chord structures, chord progressions,

simple cadences, use of inversions, nonharmonic tones, seventh chords, simple modulations and harmonization of melodies, part-writing, music-reading, aural perception and keyboard skills. Concurrent enrollment in MUS 1221 or MUS 1222 (Class Piano) is required.

MUS 1314 First Year Music Theory II [3-3]

Spring

Intervals, scales, chord structures, chord progressions, simple cadences, uses of inversions, nonharmonic tones, seventh chords, simple modulations, and harmonization of melodies, part-writing, music-reading, aural perception and keyboard skills. Concurrent enrollment in MUS 1221 or MUS 1222 (Class Piano) is required.

Prerequisite: MUS 1313 with grade of "C" or satisfactory achievement level on MUS 1313 placement exam.

MUS 2120 Diction

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

(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

(Texas Common Course Number is MUSI 2168.)

Fall

Class instruction in the rudiments of performance and care of brass instruments.

MUS 2124 Class Woodwinds

(Texas Common Course Number is MUSI 2166.)

Spring

Class instruction in the rudiments of performance and care of woodwind instruments.

MUS 2125 Class Strings

Fall

Class instruction in the rudiments of performance and care of standard orchestral string instruments.

MUS 2127 Song Literature

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 Introduction to Music Education

Spring of alternate (even-numbered) years

This course provides an orientation to music teaching and related issues, including planning and evaluating music instruction, using recognized state and national competencies in music instruction, managing the music teaching environment, and advocating for music education.

MUS 2301 Music Literature I [3-0]

Fall

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 majors and minors. This course meets the Other Humanities option (Group 4) of the General Education requirements, Section A. Humanities.

MUS 2302 Music Literature II [3-0]

Spring

Continuation of MUS 2301. This course meets the Other Humanities option (Group 4) of the General Education requirements, Section A. Humanities.

MUS 2313/2314

Second Year Music Theory I/II [3-3]

Fall/Spring

Study of figured bass, alto and tenor clefs, elementary formal concepts, intervals, scales, chord structure, chord progressions, simple cadences, use of inversions, nonharmonic tones, seventh chords, modulations and harmonization of melodies. Includes part-writing, sight-singing, keyboard and aural skills. *Prerequisite:* MUS 1314.

MUS 3102/1101**Guitar Ensemble***Fall, Spring*

Instrumental music organization open by audition to students who play guitar. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 3104/1103**University Choir***Fall, Spring*

Vocal music organization open by audition to all University students who qualify. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 3105/1104**University Band***Fall, Spring*

Instrumental music organization open by audition to all University students who play appropriate instruments. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 3106/1105**Symphony Orchestra***Fall, Spring*

Instrumental music organization open by audition to students who play appropriate instruments. Each course may be repeated any number of times; however, only 4 hours of each course will count toward a degree.

MUS 3121 Vocal Diagnosis**[0-3]***Fall*

A study of the diagnosis and classification of selected vocal dysfunctions. Building skills and discovery of appropriate therapeutic mechanisms for their correction. Vocal health required for students pursuing teaching certification who have a major instrument of voice or piano. *Prerequisite:* MUS 2314 with a grade of "C" or higher.

MUS 3122 Choral Repertoire*Fall of alternate (odd-numbered) years*

Course content centers on literature appropriate to junior high and senior high treble, tenor-bass, and mixed choirs. Topics include the University Interscholastic League prescribed music lists and contest rules, other sources of literature, how to select

and edit music for various grade levels and stages of vocal maturity, and music appropriate for the changing voice. *Prerequisite:* Upper-level study in music or permission of the instructor.

MUS 3186/1185**Applied Music Lab***Fall, Spring*

Music majors enrolled in Applied Music must register for Applied Music Lab. Each course may be repeated any number of times.

MUS 3207 Conducting I**[2-2]***Spring*

Study of baton techniques as related to both instrumental and choral conducting, fundamental phrasing, balance, mood and attack and release technique. *Prerequisite:* Junior standing.

MUS 3208/1207**Jazz Ensemble***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 3210/1208**Mariachi Ensemble***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 3301 History of Music**[3-0]***Fall, alternate years*

Advanced study of the evolution of the musical art from its beginnings through the Baroque era. *Prerequisites:* MUS 2301 and MUS 2302.

MUS 3302 History of Music**[3-0]***Spring, alternate years*

Continuation of MUS 3301. *Prerequisite:* MUS 3301.

MUS 3311 Essential Elements of Music I [3-0]*Fall, Spring, Summer I*

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 General Education requirements in Humanities. *Prerequisite:* Junior standing.

MUS 3312 Essential Elements of Music II [3-0]*Spring, alternate years*

A study of musical activities and creative ideas. Emphasis on developing the child's voice, movement and listening skills. *Prerequisite:* Music major with junior standing.

**MUS 4108/
1107 Women's Chorus***Fall, Spring*

Vocal music organization open by audition to all University students who qualify. Each course may be repeated any number of times.

MUS 4110/1109 Opera Workshop*Fall, Spring*

An organization 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 4201 Form and Analysis [3-0]*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, alternate years*

Techniques of scoring and editing music for band, orchestra and instrumental ensembles, ranges, timbres, voicings and limitations of the instruments.

Prerequisite: MUS 2314.**MUS 4208 Conducting II [1-2]***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.

MUS 4212 Choral Arranging

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 twelve. *Prerequisite:* MUS 2314 and piano proficiency.

Nursing

NURS 2301 Wellness [2-4]*Fall*

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. (May be taken by students who cannot take 4 hours of required kinesiology activities to fulfill General Education requirements.) *Prerequisite:* None.

NURS 3202 Pharmacology [2-0]

This course introduces the student to pharmacological concepts and nursing responsibilities for drug therapy. Dosage calculations, safe administration, and the use of the nursing process in the various methods of medication therapy are emphasized. *Prerequisite:* Consent of the BSN faculty.

NURS 3209 Research [2-0]

This course enables the student to be a knowledgeable nursing research consumer. An orientation to the research process, various methods of inquiry, and ethical considerations are presented to assist the student in critical evaluation and appropriate applications of research findings to practice. *Prerequisite:* Statistics; consent of the BSN faculty.

NURS 3307 Special Topics in Nursing [3-0]

This course is designed to provide students the academic flexibility to study contemporary issues and practices in the nursing profession. The course may be repeated for credit when the topics vary. *Prerequisite:* Consent of the department.

NURS 3308 Clinical Concentration [1-8]

This course provides an opportunity to study a selected area of clinical nursing. The student will utilize the

nursing process while caring for clients in a supervised clinical site. *Prerequisite:* Consent of the BSN faculty.

NURS 3403 Client Assessment [3-4]

This course allows the student 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 use laboratory settings to practice cognitive, affective, and psychomotor skills in the systematic assessment of clients and their environment. *Prerequisite:* Admission to the BSN Program or consent of the BSN faculty.

NURS 3405 Mental Health Nursing [2-8]

This course provides continued use of nursing concepts in the care of clients experiencing alterations in mental health. The nursing process is emphasized as it relates to altered psychosocial integrity. *Prerequisites:* NURS 3202, NURS 3403, NURS 3408, NURS 3604, or consent of the BSN faculty.

NURS 3407 RN Mobility [4-0]

This course is designed to assist the registered nurse in developing a personal philosophy of professional nursing. Changes in the health care delivery system (sociocultural, economic, political, ethicolegal, technological) and their impact on nursing will be described. Emphasis will be placed on the nursing process. *Prerequisite:* Admission to the BSN Program or consent of the BSN faculty.

NURS 3408 Health Promotion and Maintenance Across the Life Span [2.5-6]

Summer

This course expands on the concepts of wellness, health promotion, health maintenance, health restoration, and disease prevention across the life span. The nursing process and critical thinking skills will be applied as they relate to selected health alterations. Students will demonstrate competency in performing nursing skills in a variety of health care settings. Emphasis is placed on the application of the theoretical components to the teaching-learning process as it relates to health promotion activities. *Prerequisites:* NURS 3202, NURS 3403, and NURS 3604.

NURS 3604 Nursing Fundamentals [3-12]

This course introduces the student to fundamental health care concepts. The student will demonstrate competency in performing skills in a simulated situation prior to their application in a secondary

health care setting. *Prerequisites:* NURS 2301 and admission to the BSN Program.

NURS 3608 Adult Health I [3-12]

This course provides for continued use of nursing concepts in providing care for two or more adults in a secondary health care setting. The nursing process is emphasized as it relates to alterations of selected body systems/functions. *Prerequisites:* NURS 3202, NURS 3403, NURS 3604, and NURS 3408.

NURS 4203 Issues in Nursing [2-0]

This course will enable the student to analyze issues, trends, and problems in the delivery of nursing care. The student will identify an issue, trend, or problem and evaluate its impact on the health care delivery system. *Prerequisite:* Consent of the BSN faculty.

NURS 4404 Community Health Nursing [2-8]

This course focuses on the role of the nurse in planning and providing primary care to individuals and groups in a community or rural setting. The course will emphasize complex sociocultural, political, economic, and health issues within a community. The student will use the nursing process to recognize and meet health needs of individuals and groups. *Prerequisite:* NURS 4601 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 3408, and NURS 3608.

NURS 4602 Family Health Care [3-12]

This course focuses on the utilization of the nursing process in the care of families throughout the perinatal cycle, childhood, and adolescence. Theoretical concepts and selected research findings will be applied to developmental and familial concerns in both normal and high-risk settings. *Prerequisite:* 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. *Prerequisite:* NURS 4601 or consent of the BSN faculty.

Occupational Therapy

OCCT 3601 Gross Anatomy [3-9]

Dissection and regional study of human gross anatomy with emphasis on arthrology, osteology, gross neuromuscular and vascular anatomy, regional and general relationships between structures, and applied anatomy relevant to the practice of occupational therapy. *Prerequisite:* Admission to the Occupational Therapy Program.

OCCT 3301 Human Pathophysiology [3-0]

A study of the function of human organ systems in relation to occupational therapy practice with special emphasis on cellular mechanisms and the musculoskeletal, cardiovascular, respiratory and renal systems. *Prerequisite:* Admission to the Occupational Therapy Program.

OCCT 3201 Foundations in Occupational Therapy [2-0]

An introduction to occupational therapy. This course will survey the history, philosophy, theoretical concepts and clinical methods and techniques that support the practice of occupational therapy. *Prerequisites:* OCCT 3601, OCCT 3301. *Corequisite:* OCCT 3401.

OCCT 3401 Health and Occupation [3-3]

A study of the role of human occupation throughout the life cycle, focusing on self care, play, work and leisure as they contribute to health, competence and human performance. This course includes laboratory experiences. *Prerequisite:* Admission to the Occupational Therapy Program. *Corequisite:* OCCT 3201.

OCCT 3402 Human Neurosciences in Occupational Therapy [3-3]

A study of the structure and functions of the human nervous system with particular emphasis on the application of theoretical concepts to treatment techniques practiced in occupational therapy. The course includes laboratory experiences. *Prerequisite:* OCCT 3601.

OCCT 3403 Biomechanical Approach in Occupational Therapy [3-3]

A study of the biomechanical principles related to human motion with application to occupational therapy intervention with musculoskeletal dysfunctions. *Prerequisite:* OCCT 3601.

OCCT 3202 Assistive Technology in Occupational Therapy [2-0]

The study of the use of assistive technology in occupational therapy practice. Topics addressed include computer technology, modified computer access, augmentative communication, environmental control, seating and mobility. Special emphasis is on client assessment and the selection and use of assistive technology. *Prerequisite:* Admission to the Occupational Therapy Program.

OCCT 3303 Clinical Medicine [3-0]

An overview of the medical management of medical and surgical conditions encountered in clinical occupational therapy. *Prerequisite:* OCCT 3301.

OCCT 3404 Design and Fabrication [3-3]

The student is given the opportunity to acquire design and fabrication skills used in occupational therapy intervention. *Prerequisite:* OCCT 3401.

OCCT 3505 Occupational Therapy in Physical Dysfunction [3-6]

A study of the theories and approaches related to occupational therapy evaluation and treatment of individuals with physical dysfunction. Includes the study of evaluation and treatment techniques for individuals with physical dysfunction with lab. *Prerequisite:* OCCT 3601.

OCCT 3203 Practicum A [0-0-6]

An opportunity for the student to observe and begin participation in the evaluation and treatment of individuals with physical dysfunction. Provides opportunity for integration of theoretical knowledge to specific areas of practice. *Prerequisite:* OCCT 3401.

OCCT 4100 Social Values and Ethics in Health Care [1-0]

This course examines major bioethical dilemmas encountered in the delivery of health care services by health care professionals. The course also examines the influences of government policies, legislation and religious beliefs. *Prerequisite:* OCCT 3401.

OCCT 4200 Therapeutic Interaction in Occupational Therapy [2-0]

This course addresses the communication skills needed in individual and group occupational therapy clinical and community treatment settings. *Prerequisite:* Senior standing in the Occupational Therapy Program.

OCCT 4301 Management and Consultation in Occupational Therapy [3-0]

The study of political, socioeconomic, legal, cultural and ethical factors that impact the health care system and occupational therapy practice. Students learn the management functions of planning, organizing, directing, controlling, evaluating and communication through a directed simulation project. *Prerequisite:* Senior standing in the Occupational Therapy Program.

OCCT 4502 Occupational Therapy in Developmental Dysfunction [3-6]

A study of the theories and approaches related to occupational therapy assessment and treatment of individuals with developmental dysfunction. Includes the use and analysis of assessment and treatment techniques for individuals with developmental dysfunction. *Prerequisite:* OCCT 3505.

OCCT 4204 Practicum B [0-0-6]

A continuation of Practicum A with special emphasis on the treatment planning process. Provides an opportunity for the student to observe and begin participation in evaluation and treatment of individuals with developmental dysfunction. Students will be exposed to a variety of clinical settings. *Prerequisite:* OCCT 3203.

OCCT 4304 Gerontologic Issues in Occupational Therapy [3-0]

A study of the theoretical and clinical issues related to occupational therapy practice in gerontology. *Prerequisite:* OCCT 3305, OCCT 4302.

OCCT 4305 Research in Occupational Therapy [3-0]

An introduction to basic concepts and terminology in scientific inquiry and their application in interpreting published research as it impacts on clinical practice. *Prerequisite:* Senior standing in the program.

OCCT 4506 Occupational Therapy in Psychosocial Dysfunction [3-6]

A study of the theories and approaches used in the

rehabilitation of individuals having psychosocial dysfunction. Students have the opportunity to learn the application of the occupational therapy process in treating psychosocial conditions throughout the life span. *Prerequisite:* OCCT 3505, OCCT 4502.

OCCT 4205 Practicum C [0-0-6]

Continuation of Practicum A and B with special emphasis on the Occupational Therapy evaluation and treatment process in a mental health setting. Students will have the opportunity to observe and learn techniques during visits to mental health clinical settings. *Prerequisite:* OCCT 3203, OCCT 4204.

OCCT 4600 Field Studies in Occupational Therapy: Physical Dysfunction I [0-0-18]

A three-month fieldwork placement in an occupational therapy practice setting oriented toward treatment of physical dysfunction. *Prerequisite:* Successful completion of all academic coursework. Must be taken concurrently with OCCT 4601. Required for completion of the Occupational Therapy Program.

OCCT 4601 Field Studies in Occupational Therapy: Physical Dysfunction II [0-0-18]

A three-month fieldwork placement in an occupational therapy practice setting oriented toward treatment of physical disabilities. *Prerequisite:* Successful completion of all academic coursework. Must be taken concurrently with OCCT 4601. Required for completion of the Occupational Therapy Program.

OCCT 4602 Field Studies in Occupational Therapy: Developmental Dysfunction I [0-0-18]

A three-month fieldwork placement in an occupational therapy practice setting oriented toward the treatment of developmental dysfunction. *Prerequisite:* Successful completion of all academic coursework. Must be taken concurrently with OCCT 4603. Required for completion of the Occupational Therapy Program.

OCCT 4603 Field Studies in Occupational Therapy: Developmental Dysfunction II [0-0-18]

A three-month fieldwork placement in an occupational therapy practice setting oriented toward the treatment of developmental dysfunction. *Prerequisite:* Successful completion of all academic coursework. Must be taken

concurrently with OCCT 4602. Required for completion of the Occupational Therapy Program.

OCCT 4604 Field Studies in Occupational Therapy: Specialty Area I [0-0-18]

An elective three-month fieldwork placement in an occupational therapy practice setting oriented toward treatment within a specialty area such as hand therapy, pediatrics, work hardening or mental health. *Prerequisite:* Successful completion of all academic coursework. Must be taken concurrently with OCCT 4605.

OCCT 4605 Field Studies in Occupational Therapy: Specialty Area II [0-0-18]

An elective three-month fieldwork placement in an occupational therapy practice setting oriented toward treatment within a specialty area such as hand therapy, pediatrics, work hardening or mental health. *Prerequisite:* Successful completion of all academic coursework. Must be taken concurrently with OCCT 4604.

NOTE: Field Study courses may not conform to the University calendar.

Physician Assistant Studies

◆ Didactic Year Courses

PHAS 3321 Legal & Ethical Issues in Health Care [3-0]

Spring
Explores medical jurisprudence and licensing in the state of Texas. Students will be introduced to the dynamics of the legal system, moral problems in health care and the impact of both on professional and institutional interactions with patients. Students will be given opportunity to demonstrate 1) an understanding of ethical principles and legal factors which impinge upon health care, and 2) the ability to apply ethical and legal concepts to the analysis of the roles and responsibilities of the allied health professional. *Prerequisite:* Admission to the Physician Assistant Studies Program or permission of the instructor.

PHAS 3337 Preventive Medicine & Community Health [3-0]

Fall
Examines the bio-demographics of disease in the United States. Emphasis is on prevention from the perspective of the primary health care provider. Encourages community involvement. Discussions focused on prevention of disease. Special attention is given to the local medical practices and beliefs of the Rio Grande Valley and the Texas-Mexico border region. Guest lectures include topics in rural health, community outreach, HIV/AIDS awareness and prevention, cancer awareness, sexual health, and folk and alternative medicine. *Prerequisite:* Admission to the Physician Assistant Studies Program or permission of the instructor.

PHAS 3401 Medical Human Anatomy & Physiology [3-3]

Summer I
Introduction to medical anatomy and physiology. Emphasis on normal function of the human body, with clinical references and medical terminology. Investigates biochemical function, cell biology, cell membranes, cellular communication, homeostatic mechanisms, hormonal control, energy metabolism. Organ systems studies include: skeletal, muscular, cardiovascular and pulmonary. Laboratory experience enables the student access to cadaver prosections and computer assisted learning (CAL) modules. *Prerequisite:* Admission to the Physician Assistant Studies Program or permission of the instructor.

PHAS 3402 Medical Human Anatomy & Physiology II [3-3]

Summer II
Continuation of PHAS 3401. Explores the digestive system, kidneys and electrolyte metabolism, reproductive systems and neurological mechanisms. Neuroanatomy and physiology are discussed. Laboratory experience enables the student access to cadaver prosections and CAL modules. *Prerequisite:* PHAS 3401 and admission to the Physician Assistant Studies Program or permission of the instructor.

PHAS 3227 Patient Education [1-3]

Spring
A laboratory workshop course that enables the student the opportunity to rehearse patient education techniques. Promotes teaching patients and families about disease and treatment in lay terms. Stresses

addressing various age groups and medical conditions common to each group. Advocates empathy and acceptance. Employs simulated patients and situations. *Prerequisite:* PHAS 3226 and admission to the Physician Assistant Studies Program or permission of the instructor.

PHAS 3111 Studies in the PA Profession [1-0]
Summer I

Examines the history and concept of the physician assistant profession. Discusses issues that are relevant to professional practice and legal practice. Discussion of future trends in the profession. *Prerequisite:* Admission to the Physician Assistant Studies Program.

PHAS 3225 Medical Interviewing [1-3]
Summer II

A lecture, laboratory and workshop course designed to provide the means to practice basic techniques of interviewing all age groups, including pediatric and geriatric patients. Details the basic medical history. Cultivates skillful communications with patients and families. Employs simulated patients and situations. *Prerequisite:* Admission into the Physician Assistant Studies Program or permission of the instructor.

PHAS 3226 Medical Psychiatry [2-0]
Fall

Course material identifies normal, physical, social and psychological processes in distinguishing illness and injury. Explores psychiatric illness and expands on the medical interview with a complicated patient or problem. Directs the ability to assess growth and development for all age groups. Coordinates the relationship of the history and physical examination to the human psyche. Employs simulated patients and situations with a psychiatric focus. Course provides an overview of psychiatric concepts and an introductory approach to the evaluation of patients with emotional problems, in preparation for clinical rotations. Discussions include topics in human sexuality, substance abuse and mental/physical abuse. *Prerequisite:* PHAS 3225.

PHAS 3262 Clinical Clerkship [1-3]
Spring

This course covers the indications, contraindications, step-by-step procedures and potential complications of multiple hands-on skills that are commonly performed by physician assistants in clinical practice. Examples

include: phlebotomy, injections, IV therapy, urethral and nasogastric catheterization, pulmonary function testing, suturing, casting and splinting, various ENT procedures, electrical cardioversion, and use of various types of monitoring devices and restraints. Students will have an opportunity to scrub, gown and glove in an operating room environment. In addition, students will be required to successfully complete an Advanced Cardiac Life Support (A.C.L.S.) training course. Lecture series includes implementation and interpretation of electrocardiograms. The EKG interpretation section provides students with a systematic method of interpreting a 12-lead EKG with respect to rate, rhythm and blocks, electrical axis determination, hypertrophy, ischemia, injury, infarction, and miscellaneous drug, electrolyte, disease, and pacemaker effects. Course also covers documenting in the medical record. Documents to be covered include the complete medical history, admission notes, SOAP notes, progress notes, procedural notes, discharge summaries, hospital orders, etc. *Prerequisite:* CLSC 3227.

PHAS 3406 Pathophysiology of Disease [3-3]
Fall

This course provides a systematic approach to the physiologic basis for disease. The general pathology of cell injury, inflammation, infection and neoplasia is presented along with the disease processes of organ systems including the gastrointestinal, cardiovascular, respiratory, neurologic, renal, urinary, reproductive, musculoskeletal, immunological, endocrine, dermatological, and hematological systems. General concepts of disease are covered including degeneration and necrosis, inflammation and repair, fluid and coagulation disturbances, and general aspects of neoplasia. Disease entities in each organ system are studied with regard to causation, evaluation and morphology of pathological changes. Laboratory experience provides the student with modules, case studies and group discussions to supplement lecture. *Prerequisite:* PHAS 3402. *Corequisite:* CLSC 3227.

PHAS 3228 Pharmacology I [2-0]
Fall

This course represents a broad survey of the general principles of pharmacology. Included are the principles of pharmacokinetics and pharmacodynamics, the mechanisms of action, toxicities and interactions of specific drugs and drug groups, and an introduction to medical therapeutics. The physiologic basis and clinical characteristics of disease states relative to

pharmacologic therapy will also be discussed. The objective of the course is to lay a cognitive foundation in pharmacology and therapeutics that can be refined and applied in clinic practice. *Prerequisite:* PHAS 3406.

PHAS 3329 Pharmacology II [3-0]
Spring

A continuation of PHAS 3228. Exposes the student to knowledge of conventionally used chemotherapeutic agents and efficacy of use. Promotes the ability to recognize untoward side effects of medications. Enables the student to calculate dosages, write prescriptions, discuss pharmacokinetics and determine the appropriate medication for a particular disease. Emphasis is placed on pharmacotherapeutics of disease. *Prerequisite:* PHAS 3228.

PHAS 3407 Patient Evaluation [3-3]
Fall

Instructs the student in the proper use of instruments and techniques used in performing a physical examination. Correlates information acquired in Human Anatomy and Physiology with application to the physical exam. Connects data gathered from the history to the physical examination. Guides the student in organizing history and physical examination details to present to the physician. Utilizes clinical settings and simulated patients and situations in the laboratory. Recording the clinical data and oral presentation will be stressed. *Prerequisite:* PHAS 3402 and PHAS 3225.

PHAS 3617 Principles of Clinical Medicine [5-3]
Spring

Advanced clinical medicine course. An in-depth examination of the mechanisms of human disease. Emphasis has been placed on the integration of the essential anatomy, physiology, pathology, microbiology, pharmacology and medical terminology relevant to medical problems encountered in the primary care setting. The differential diagnosis of symptoms and physical findings along with interpretation of laboratory and radiographic tests appropriate to each system is discussed. Topics to include problems of the respiratory tract, cardiology, endocrinology, hematology, nephrology, gastroenterology, pediatrics, infectious disease, obstetrics, gynecology, geriatrics, psychiatry, rheumatology, dermatology and general surgery. This course will also provide the student with the fundamentals of diagnostic radiography. A brief discussion of the physics of radiologic techniques leads to an intensive series of lectures that instructs students

in the methodology of interpreting radiologic findings. Laboratory promotes basic problem-solving skills in evaluating and treating clinical medicine problems. Consolidates topics in medicine by developing a logical methodology of assessment of disease processes or syndromes and subsequent intervention. Students will master the ability to generate a differential diagnosis specific to the patients presenting complaints, signs and symptoms, and laboratory data. A case-study format is used. Seminar experience applies research design and biostatistics in preparing for or reviewing scientific literature. *Prerequisite:* PHAS 3402 & PHAS 3406.

CLSC 3227 Clinical Laboratory Methods [1-3]
Fall

Lecture, laboratory course that introduces the student to the medical laboratory. Emphasizes appropriate laboratory studies for specific disease, normal laboratory values and procedures for obtaining samples. Students are given the opportunity to perform routine lab studies. *Prerequisite:* PHAS 3402. *Corequisite:* PHAS 3406.

PHAS 4201 Clinical Elective (2.0)
Spring

This course is available to enhance the physical exam and history taking skills. It requires a clinical rotation site assigned by the faculty.

◆ **Clinical Year Courses**

PHAS 4431 Pediatric Rotation I (4.0)
As Scheduled

Four-week general pediatric rotation that gives the student the opportunity to: 1) elicit and record a complete pediatric history; 2) perform a complete pediatric examination; 3) formulate a management plan for common pediatric problems; 4) perform selected screening, diagnostic and treatment procedures as directed by the precepting physician; 5) advise and educate patients and their parents or guardians regarding optimal health of the child; and 6) monitor pediatric milestones. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4432 Pediatric Rotation II (4.0)
As Scheduled

Four-week general pediatric rotation that is a continuation of PHAS 4431. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

**PHAS 4433 Obstetrics & Gynecology
Rotation I (4.0)***As Scheduled*

Four-week obstetrics and gynecology rotation that gives the student the opportunity to: 1) elicit, organize, record and present a complete database on an obstetric or gynecologic patient; 2) assist the physician effectively in procedures unique to the discipline; 3) advise the obstetric patient in pre- and post-natal care; and 4) instruct patients on matters of common gynecological problems. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

**PHAS 4434 Obstetrics & Gynecology
Rotation II (4.0)***As Scheduled*

Four-week obstetrics and gynecology rotation that is a continuation of PHAS 4433. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4435 Surgery Rotation I (4.0)*As Scheduled*

Four-week supervised clinical course provides the student with hands-on experience in the operating room setting. Both pre-operative and post-operative assessment and care will be emphasized. The student will be assigned to a general surgeon in private practice, where, under supervision, he/she engages in a wide variety of activities in each of the phases of surgical intervention: pre-operative, operative, and post-operative recovery. The student is given opportunities to explore the basic considerations involved in the fluid, electrolyte and nutritional management of the surgical patient, infections, wound healing, and wound care. Students participate in daily rounds, conferences and serve on call.

Prerequisite: Successful completion of the didactic PHAS professional curriculum.

PHAS 4436 Surgery Rotation II (4.0)*As Scheduled*

Four-week surgery rotation that is a continuation of PHAS 4435. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4440 Medicine Rotation I (4.0)*As Scheduled*

Four-week general medicine rotation that gives the student the opportunity to: 1) elicit, organize and record

necessary data; 2) present data in a comprehensive or problem-oriented fashion; 3) order or recommend appropriate laboratory, radiologic or other diagnostic studies; 4) formulate a management plan for a particular patient problem; 5) follow patient progress by record review and periodic examination; 6) assist the physician in appropriate procedures; 7) advise and educate the patient about health maintenance issues; and 8) understand and establish emergency medical care when necessary. Students will be exposed to a variety of patients and medical conditions, such as infectious diseases, respiratory diseases, cardiovascular diseases and psychiatric conditions. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4441 Medicine Rotation II (4.0)*As Scheduled*

Four-week general medicine rotation that is a continuation of PHAS 4440. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4442 Emergency Medicine Rotation (4.0)*As Scheduled*

Four-week rotation allows the student to develop skills in managing patients in the emergency room setting. These skills include those necessary for appropriate triage, stabilization, and initial management of patients with traumatic injuries and illnesses, the management of the less life-threatening problems presented to the emergency room, working with the pre-hospital emergency medical service team, and making appropriate secondary referrals. Where possible, students participate in grand rounds, noon conferences and other clinically-relevant didactic presentations. A set of cognitive objectives guides student reading in preparation for a written examination at the end of the rotation. *Prerequisite:* Successful completion of the didactic PHAS professional curriculum.

PHAS 4443 Clinical Elective Rotation (4.0)*As Scheduled*

The four-week elective rotation gives the student the opportunity to: 1) understand and manage complex problems in the particular discipline chosen; 2) understand how additional knowledge and skills can be beneficial in the primary care setting; and 3) understand how to better serve in a primary care setting. This course may include extended clinical care hours, emergency or hospital and community service as deemed appropriate by the precepting physician.

Prerequisite: PHAS 4432, PHAS 4434, PHAS 4436, and PHAS 4441.

Philosophy

PHIL 1310 Introduction to Philosophy [3-0]
(Texas Common Course Number is PHIL 1301.)
As Scheduled

An introduction to some of the major philosophical questions that have intrigued mankind over the centuries. This will be done through an examination of the thought of some of the most important figures in the history of philosophy from the early Greeks to modern times. *Credit Restriction:* Credit may be received in only one of PHIL 1310 or PHIL 1387.

PHIL 1320 Introduction to Logic [3-0]
(Texas Common Course Number is PHIL 2303.)
As Scheduled

The subject matter of this course will be clear and effective thinking. It will examine principles for correct reasoning and ways to distinguish good reasoning from bad, and it will consider the kinds of mistakes in reasoning that are most commonly made in everyday life. *Credit Restriction:* Credit may be received in only one of PHIL 1320 or PHIL 1388.

PHIL 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 2340 Philosophy of the Person [3-0]
As Scheduled

A philosophical examination of what it is to be human. This course will deal with such issues as the problem of personal identity, the nature and structure of the self, the nature of mind and its place in the world and the question of "human nature." *Previous Course Number:* PHIL 3340; a student may receive credit in only one course.

PHIL 2350 Social Philosophy [3-0]
(Texas Common Course Number is PHIL 2307.)
As Scheduled

This course will provide a philosophical examination of alternative theories of society, and it will investigate the basic presuppositions and structures of society and the ways in which these are to be understood and evaluated. *Previous Course Number:* PHIL 2380; a student may receive credit in only one course.

PHIL 2370 Eastern Thought [3-0]
As Scheduled

An analysis of the major movements in Eastern philosophy and religion and their relationship to basic philosophical developments in the West. This course will examine systems of thought and culture such as Buddhism, Hinduism, Confucianism, Taoism and Shinto.

PHIL 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 3320 Symbolic Logic [3-0]*As Scheduled*

This course will be a continuation of Philosophy 1320, Introduction to Logic, and will be concerned with the principles and methods used in symbolic logic to distinguish between valid and invalid arguments. *Prerequisite:* PHIL 1320 or consent of instructor.

PHIL 3330 Philosophy of Value [3-0]*As Scheduled*

A philosophical examination of the place of value in aesthetic, moral and practical experience. This course will consider both historical and contemporary treatments of the importance of value in various forms to human thought, feeling and action. *Prerequisite:* 3 hours of philosophy or consent of instructor.

PHIL 3360 History of Philosophy: Ancient and Medieval [3-0]*As Scheduled*

A study of the history of philosophy from the Presocratics through the Middle Ages, with particular emphasis on the Presocratics, Plato, Aristotle, Stoicism, Epicureanism, Augustine and Aquinas. *Prerequisite:* 3 hours of philosophy or consent of instructor.

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:* 3 hours of philosophy or consent of instructor.

PHIL 3362 History of Philosophy: Contemporary [3-0]*As Scheduled*

A study of the history of philosophy during the 19th and 20th centuries, with particular emphasis on phenomenology, existentialism and the analytic tradition. *Prerequisite:* 3 hours of philosophy or consent of instructor.

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:* 3 hours of philosophy.

PHIL 3380 Latin American Thought [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. *Prerequisite:* 3 hours of philosophy.

PHIL 4310 Theories of Knowledge [3-0]*As Scheduled*

A philosophical inquiry into the sources, nature and criteria of knowledge and an examination of alternative approaches to the problems of perception, meaning and truth. The course will also consider the interplay between these issues in epistemology and related problems in metaphysics. *Previous Course Number:* PHIL 3310; a student may receive credit in only one course. *Prerequisite:* 3 hours of philosophy or consent of instructor.

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:* 3 hours of philosophy or consent of instructor.

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:* 3 hours of philosophy or consent of instructor.

PHIL 4380 American Philosophy [3-0]*As Scheduled*

An examination of the contributions of great American thinkers to the philosophical deposit of the world. *Prerequisite:* 3 hours of philosophy.

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 9 hours credit as content changes. *Prerequisite:* 3 hours of philosophy or consent of instructor.

Physics

PHYS 1401 General Physics [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. *Prerequisite:* MATH 1340. *Recommended:* Credit for or concurrent enrollment in MATH 1356. \$4 laboratory fee.

PHYS 1402 General Physics [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. *Prerequisite:* PHYS 1401. \$4 laboratory fee.

PHYS 2101 Intermediate Laboratory [0-3]

Fall, Spring

Laboratory exercises illustrating the principles of mechanics, heat and sound. Emphasis is placed on statistical data analysis and error treatment.

Corequisite: Concurrent enrollment in PHYS 2301. \$4 laboratory fee.

PHYS 2102 Physics Scientist and Engineers [0-3]

Fall, Spring

Laboratory exercises illustrating the principles of electricity, magnetism, waves and optics. *Corequisite:* Concurrent enrollment in PHYS 2302. \$4 laboratory fee.

PHYS 2301 Physics Scientist and Engineers [3-0]

Fall, Spring

A calculus-based study of mechanics, heat, thermodynamics, wave motion and sound. *Corequisite:* Concurrent enrollment in PHYS 2101. *Prerequisites:* PHYS 1401 and MATH 1402 with concurrent enrollment in MATH 2401.

PHYS 2302 Intermediate Physics [3-0]

Fall, Spring

Treatment of electricity, magnetism, wave phenomena and optics using calculus. *Corequisite:* Concurrent enrollment in PHYS 2102. *Prerequisites:* PHYS 1402, PHYS 2301 and MATH 2401.

PHYS 3101 Junior Laboratory [0-3]

Fall, Spring, Summer

The course is designed to acquaint the student with the experimental method. Experiments are chosen to cover as many fields of physics as possible in keeping with the background and abilities of the students.

Prerequisite: 12 hours of physics. \$4 laboratory fee.

PHYS 3102 Junior Laboratory [0-3]

Fall, Spring, Summer

A continuation of PHYS 3101. \$4 laboratory fee.

PHYS 3301 Electromagnetic Theory I [3-0]

As Scheduled

Theory of electrostatics, electromagnetics, magnetic properties of materials, units and thermoelectricity, simple treatment of alternating current, oscillating circuits, electromagnetic radiation and Maxwell's Equation. *Prerequisites:* 12 hours of physics and MATH 2401, which may be taken concurrently.

PHYS 3302 Electromagnetic Theory II

This course includes conservation laws — charge and energy, momentum, Newton's third law in Electrodynamics, Maxwell's stress tensor, conservation of momentum and angular momentum. Electrodynamics waves — waves in one dimension, waves in vacuum, waves in matter, absorption, dispersion and guided waves. Potentials and fields — Potential formulation, continuous distribution and point charges. Radiation — Dipole radiation and point charges. Electrodynamics and Relativity — Special Theory of Relativity, relativistic mechanics, relativistic electrodynamics.

PHYS 3303 Heat and Thermodynamics [3-0]

As Scheduled

Study of heat measuring devices, thermal expansion, behavior of gases, elementary thermodynamics, change of state, specific heats and transfer of heat. *Prerequisites:* 12 hours of physics and MATH 2401, which may be taken concurrently.

PHYS 3304 Optics [3-0]*As Scheduled*

A study of physical optics, including diffraction, interference, polarization and the beginning of spectroscopy together with some geometrical optics. *Prerequisites:* 12 hours of physics and MATH 2401, which may be taken concurrently.

PHYS 3305 Mechanics [3-0]*As Scheduled*

A rigorous treatment of the motion of a particle in one, two and three dimensions; the motion of a system of particles with a detailed treatment of the conservation laws; the statics of fluids and solids; an introduction to the motion of rigid bodies. *Prerequisites:* 12 hours of physics and MATH 3349, which may be taken concurrently.

PHYS 3402 Modern Physics [3-3]*As Scheduled*

Introduction to relativity, physics of atoms and solids and other topics in 20th century physics. *Prerequisites:* PHYS 2302 and PHYS 2102. \$4 laboratory fee.

PHYS 4101 Senior Laboratory [0-3]*Fall, Spring, Summer*

The student performs experiments of greater complexity and difficulty than those in Junior Laboratory. In addition, the student is encouraged to design and carry out original experiments in his or her field of interest. *Prerequisites:* PHYS 3101 and PHYS 3102. \$4 laboratory fee.

PHYS 4102 Senior Laboratory [0-3]*Fall, Spring, Summer*

A continuation of PHYS 4101. \$4 laboratory fee.

PHYS 4103 Senior Laboratory [0-3]*Fall, Spring, Summer*

A continuation of PHYS 4102. \$4 laboratory fee.

PHYS 4301 Topics in Modern Physics [3-0]*As Scheduled*

A study of recent developments in physics including atomic energy, nuclear structure, X-rays, cosmic rays and radioactivity. *Prerequisites:* PHYS 2302 and PHYS 2102.

PHYS 4308 Seminar in Physics [3-0]*As Scheduled*

Investigations of problems and progress in contemporary

physics will be undertaken. Individual research and reporting will be emphasized. Course may be repeated once for credit. *Prerequisites:* One year of physics and consent of instructor.

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 General Education or State mandated American & Texas Government Requirement.)

POLS 2313 United States and Texas Government and Politics [3-0]*(Texas Common Course Number is GOVT 2301.)**Fall, Spring, Summer*

The origins and development of the American governmental system; U.S. and Texas constitutions; federal, state and interstate relations; the individual as a citizen, person and voter; political parties; civil rights and the judicial system. Fulfills 3 hours of the legislative requirements of 6 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 United States and Texas Government and Politics [3-0]*(Texas Common Course Number is GOVT 2302.)**Fall, Spring, Summer*

A functional study of the U.S. and Texas constitutions and governments in relation to the legislative, executive and administrative processes; and a study of the policy process, including domestic and foreign policy areas. Fulfills 3 hours of the legislative requirements of 6 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 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.

POLS 2387 United States 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 3 hours of the legislative requirements of 6 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 United States 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 3 hours of the legislative requirement of 6 hours of American and Texas government. *Credit Restriction:* Credit may be received in only one of POLS 2314 or POLS 2388. *Prerequisite:* Admission to Honors Studies or by invitation.

POLS 3185 Internship

As Scheduled

This course is designed for students seeking credit through an internship placement. The internship must be directly related to government; the student must be under direct academic supervision and must complete written assignments to be evaluated by the supervising teacher. The course may be repeated for credit with a maximum of 4 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 3314 American State and Local Government [3-0]

As Scheduled

A study of the basic functions, structure, procedures and problems of American state and local government, with an emphasis upon intergovernmental relations. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3316 American Public Policy [3-0]

As Scheduled

An analysis of rationales underlying selected governmental programs and assessments of the effectiveness of these programs. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3318 Special Topics [3-0]

As Scheduled

Significant issues and problems in politics and political systems. Course may be repeated for credit provided different topics are the focus of each class. (Does not count toward fulfillment of any of the six political science fields.) *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3322 Politics of Developing Nations [3-0]

As Scheduled

Analysis of political institutions and processes with focus on developing nations, such as those in Africa and the Middle East. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3323 Introduction to Public Administration [3-0]

As Scheduled

A survey of public administration in the United States, highlighting a wide variety of topics in the discipline, but with emphasis upon the general machinery of the national bureaucracy and on the powers, problems and control of its agencies. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3324 Government Organization and Administrative Theory [3-0]

As Scheduled

An analysis of the various theories of public administration and government organization. The contribution of such theorists as Weber, Taylor, Mayo, McGregor, Maslow, Simon and others will be studied. The development of public administration will be surveyed. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3325 Public Personnel Administration [3-0]

As Scheduled

Fundamental concepts of public personnel management with analysis and evaluation of employee-employer relations at the national, state and local levels. Treats 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.

POLS 3331 Methods of Political Science Research [3-0]*As Scheduled*

Analysis of the study of politics, models of inquiry, research methods and introduction to the use of computers in political science research. *Prerequisites:* POLS 2313 and POLS 2314.

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. *Prerequisite:* POLS 2313 and POLS 2314.

POLS 3363 American Hispanic Politics [3-0]*As Scheduled*

A study of the American Hispanic experience. Analyzes political socialization and culture, political participation and behavior, leadership, organizations and power in the American political system. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3364 U.S.-Mexico Border Relations [3-0]*As Scheduled*

An analysis of the politics at the U.S.-Mexican border. Focus on the political economy and the administration of the borderlands. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3365 Politics of Immigration [3-0]*As Scheduled*

Analysis of the politics of immigration, migration and emigration. Study of the history, theories and policy

alternatives concerning immigration. The administration process and the legal and law enforcement systems of immigration will be examined. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3371 Politics of the Russian Federation and Eastern Europe [3-0]*As Scheduled*

A survey of governmental structures and politics in the Russian Federation and Eastern Europe. Examines competing ideologies; group developments; party interests; influence of revolution; economics; relationships among political, social and economic structures; and the roles of the Russian Federation and Eastern Europe in the international political arena. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 3375 Politics of Germany [3-0]*As Scheduled*

A study of the politics and government of Germany in the context of German history and culture. Examines the leading role of Germany within the European Union. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4309 Public Fiscal Administration [3-0]*As Scheduled*

Survey and analysis of governmental budgeting and public finance, emphasizing theories, techniques, procedures and implementation. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4310 Comparative Public Administration [3-0]*As Scheduled*

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.

POLS 4313 Comparative Governments: Western Democracies [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 American Constitutional Law: Federalism [3-0]
As Scheduled

A study of national-state relations by use of court cases, with special emphasis on the impacts of the commerce and taxation clauses; a study of Congressional-presidential relationships by use of court cases.
Prerequisites: POLS 2313 and POLS 2314.

POLS 4321 American Constitutional Law: Liberties [3-0]
As Scheduled

A study of the limitations of governmental powers in the United States by use of court cases, with primary emphasis on civil and political rights. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4332 American Political Theory [3-0]
As Scheduled

An analysis of American political theory and values from the Colonial period to the present. The work of Jefferson, Jackson, Calhoun, Bellamy, Hoover and Galbraith are included. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4353 International Organization [3-0]
As Scheduled

An analysis of the judicial-political foundations. Actual machinery and activities of the principal international organizations, particularly the United Nations and related bodies. An appreciation of their achievements toward international peace. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4360 American Executive Process [3-0]
As Scheduled

Advanced study of the development of the power and influence of the president and other American executives; procedures and politics of the executive process; executive policy outputs; the relation of the executive to the other elements of the political system.
Prerequisites: POLS 2313 and POLS 2314.

POLS 4363 American Legislative Process [3-0]
As Scheduled

Advanced study of the legislative process; structure, powers, organization, political control and procedures of Congress, state legislatures and local legislative bodies in the rest of the political system. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4365 American Administrative Process [3-0]
As Scheduled

Advanced study of law and procedures of national, state and local administrative agencies and their behavior; problems in administrative management; theory of complex organizations; policy outcomes of the administrative process. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4367 American Judicial Process [3-0]
As Scheduled

Advanced study of the structure, functions and procedures of the national, state and local judicial systems; the interrelationship between the American judiciary and other components of the political system; the impact of judicial decision making on public policy; jurisprudence. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4373 American Political Parties and Politics [3-0]
As Scheduled

A study of the history, organization, function and leadership of political parties and the role they play in the operation of national, state and local governments in the United States and a study of the role of group politics and voting behavior in the American political process.
Prerequisites: POLS 2313 and POLS 2314.

POLS 4374 Public Opinion and Political Behavior [3-0]
As Scheduled

An analysis of public opinion and political behavior, with emphasis on the nature, origins, distribution and measurement of public opinion, as well as its impact on citizen participation in the U.S. political system.
Prerequisites: POLS 2313 and 2314.

POLS 4375 American Foreign Policy [3-0]
As Scheduled

Study of the politics, formulation, conduct and consequences of U.S. foreign policy. The roles of the president, Congress, interest groups, political parties, the military and intelligence agencies and

public opinion are examined. Specific cases of major foreign policy decisions to be examined. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4382 Governments and Politics of China, Japan and India [3-0]

As Scheduled

Study of the socio-economic setting, constitutional framework, political forces, authoritative decision-making agencies and certain major policy outputs of China, Japan and India. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4383 Politics of Central America and the Caribbean [3-0]

As Scheduled

A survey of governmental structures and politics in Central America and the Caribbean. Examines competing ideologies, group developments, party interests, influence of revolution, relationships among political, social and economic structures and Latin America's role in the world political arena. *Prerequisites:* POLS 2313 and POLS 2314.

POLS 4384 Seminar in Local Government Problems [3-0]

As Scheduled

An examination and study of administrative problems in local government. *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.

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Physical Science

PSCI 1421 Physical Science [3-2]

(Texas Common Course Number is PHYS 1415.)

Fall, Spring, Summer

A survey course designed to provide an introduction to the concepts and principles of physical science for non-science and elementary teaching majors. The topics covered include astronomy, chemistry and mechanics. *Prerequisite:* MATH 1334. \$4 laboratory fee.

PSCI 1422 Physical Science [3-2]

(Texas Common Course Number is PHYS 1417.)

Fall, Spring, Summer

A survey course that introduces the concepts and principles of physical science for non-science and elementary teaching majors. Geology, meteorology and physics will be included in this course of study. *Prerequisite:* PSCI 1421. \$4 laboratory fee.

PSCI 2408 Survey of Physical Science [3-2]

Fall, Spring

Introduction to topics of the physical sciences drawn from physics, chemistry and geology. Basic concepts from mechanics, electricity, light, atomic structure, the elements and compounds, and simple reactions will be covered. Earth materials and processes will be included. *Prerequisites:* BIOL 1401 and BIOL 1402. \$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 8 hours of a physical science, or consent of instructor.

Psychology

PSY 1310 Introduction to Psychology [3-0]
Fall, Spring

An introduction to the discipline of psychology as a natural science and as an applied social science. This course includes topics such as the biological bases of behavior, sensation and perception, learning and memory, emotions, personality, abnormal psychology, therapy, developmental and social psychology.
Previous Course Numbers: PSY 1310 replaces the previous PSY 1313/1323 sequence. PSY 1310 may be repeated to replace a grade for PSY 1313.

PSY 2331 Psychology of Disability [3-0]
As Scheduled

Provides a survey of psychological aspects of disability, with emphasis on physical disability. Includes an overview of research areas and findings. Describes major disability groups and the general psychological processes that are observed in patients and their families as they react and adjust to their disabilities.

PSY 2336 Developmental Psychology: Adolescence [3-0]
(Texas Common Course Number is PSYC 2307.)
As Scheduled

A study of the physical, mental, emotional and social growth from childhood through adolescence.
Prerequisite: PSY 1310.

PSY 2401 Basic Statistics for Psychologists [3-3]
(Texas Common Course Number is PSYC 2317.)
Fall, Spring

A practical study of the procedures used in handling psychological data including descriptive statistics, central tendency, variation, correlation and inference.
Equivalent Course: May be counted as ANTH 2401; a student may receive credit in only one course.
Prerequisites: MATH 1340 or higher (except MATH 2306) and 3 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: 3 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; PSY 2401.

PSY 3332 Developmental Psychology: Infancy and Childhood [3-0]
As Scheduled

An overview of human development from conception to adolescence. Topics include biological foundations, physical growth, language and cognition, social and personality development. Traditional and recent theoretical perspectives are reviewed. *Prerequisite:* PSY 1310.

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:* 6 hours of psychology.

PSY 3337 Developmental Psychology: Lifespan [3-0]
As Scheduled

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. *Prerequisite:* PSY 1310 and 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]

As Scheduled

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. 3 hours lecture and a 3-hour lab. *Prerequisite:* PSY 1310.

PSY 4302 Primate Behavior [3-0]

As Scheduled

A review of the behavior of selected representatives of the order primates, based upon research conducted in both laboratory and field. In addition, students will collect data on a representative primate group at the Gladys Porter Zoo. Equivalent Course: May be counted as ANTH 4302; a student may receive credit in only one course. *Previous Course Number:* PSY 3384; a student may receive credit in only one course. *Prerequisites:* PSY 1310 and PSY 3383, or ANTH 1324, or consent of instructor.

PSY 4312 Female and Male [3-0]

As Scheduled

An examination of the physiological and psychological influences of sex role development, including such topics as human liberation, sexual behavior, child rearing practices and career opportunities. *Prerequisite:* 9 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 Processes [3-0]

As Scheduled

The experimental study of conscious, voluntary mental processes. Topics include recognition of written words and other patterns, recognition of speech and comprehension of language, limits on ability to divide attention, concept formation, problem solving and reasoning. Emphasis is on adult processes rather than on development of the processes in children. *Prerequisite:* PSY 1310.

PSY 4320 Memory [3-0]

As Scheduled

The experimental study of the acquisition, storage, retrieval and forgetting of verbal information. Emphasis is on basic research and theory about adult processes, and little consideration is given to either

applications or development of the processes in children. *Prerequisite:* PSY 1310.

PSY 4326 Cross-Cultural Psychology [3-0]
As Scheduled

The course examines how culture shapes our cognition and behavior. In addition to exploring intercultural contact and cross-cultural research methods, the following areas in psychology are analyzed from a cross-national perspective: perception, cognition, human development, attitudes and interpersonal relations. *Prerequisite:* PSY 1310.

PSY 4328 Psychological Issues in the Mexican-American Community [3-0]
As Scheduled

Mexican-American personality development and assessment, ethnic identity and acculturation are examined in the course, as are Chicano perceptions of abnormal conduct and the use of alternative therapists. Selected community issues, such as immigration and prosocial behavior, are also explored from a psychological perspective. *Prerequisite:* PSY 1310.

PSY 4333 Theories of Personality [3-0]
As Scheduled

Emphasis is placed on the major theories of personality that attempt to explain the psychological nature and behavior of people. Some consideration is given to the process involved in developing a theory of personality. *Prerequisite:* PSY 1310.

PSY 4342 Psychology and Law [3-0]
As Scheduled

This course is designed to give students an appreciation of behavioral phenomena as they apply to our legal system. A general survey of related topics such as the trial process, the psychology of evidence and the psychology of juries will be covered.

PSY 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 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: PSY 1310.

PSY 4380 Research Seminar [3-0]
As Scheduled

Students will 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 6 hours credit. *Prerequisites:* PSY 2401 and PSY 3325, and consent of instructor.

PSY 4383 Special Problems [3-0]
As Scheduled

Selected topics assigned according to the interest of the class and/or student. Sequential registration for up to 9 hours is permitted as topics vary. *Prerequisites:* 9 hours of psychology and consent of instructor.

Quantitative Methods

QUMT 2340 Introduction to Quantitative Methods in Business [3-0]
Fall, Spring, Summer

This course is an introduction to the quantitative techniques and models applicable to business decision making. Topics include optimization models of deterministic and non-deterministic systems used in the business curriculum (accounting, computer information systems, economics, finance, management, marketing, production and operations). The course integrates computers as tools in solving business problems. *Prerequisites:* MATH 1321 or MATH 1340; CIS 1301.

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 1321 or 1340; CIS 1301 or CIS 1101.

QUMT 3342 Intermediate Business and Economic Statistics [3-0]

Fall, Spring, Summer

A continuation of elementary statistics, including regression and correlation, index numbers, time series, nonparametric statistics and other decision-making tools. Computer laboratory assignments covering the above topics will be assigned. *Prerequisites:* QUMT 2341 and MATH 1322 or QUMT 2340.

Reading

READ 3310 Narrative and Expository Analysis-Elementary/Secondary [3-0]

Fall, Spring, Summer

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]

Fall, Spring

Psychological, sociological, cultural, physical and linguistic factors related to reading acquisition; analysis of scope and sequence of word recognition processes: sight word vocabulary, phonics, structural, morphemic and contextual analysis; analysis of organizational and management parameters of learner-centered reading instruction at the primary levels; diagnostic and prescriptive processes as they pertain to readiness, structural and phonetic analysis, vocabulary skills and classification skills. (Field-Based Approved Course.)

READ 3325 Cognitive Development and Reading Comprehension [3-0]

Fall, Spring

Examination of principles of comprehension; factors that affect comprehension of text; cognition and reading comprehension; components of the learner-centered instructional program of reading

comprehension and the correlation of reading processes to the writing processes; analysis of comprehension processes as they apply to various text structures; extending and enriching reading comprehension through literature; diagnostic and prescriptive processes as they pertain to literal, interpretive and evaluative comprehension processes. (Field-Based Approved Course.)

READ 3326 Reading Across the Curriculum Content Areas [3-0]

Fall, Spring

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]

Fall, Spring, Summer

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]

Fall, Spring

Reading as an integral part of the language arts process; study of the relationships between listening, speaking, reading and writing. *Prerequisite:* READ 3323.

READ 3351 Literature for the Young Adult [3-0]

Spring, Summer

Emphasis is on the reading and evaluation of literature written for young adults (middle, junior and senior high school students). The selection and reading of a variety of literary genre for the young adult that encompasses literature reflecting culture, ethics and social diversity within a multicultural society will be included.

READ 4351 Developmental Reading in Secondary Schools [3-0]

Fall, Spring, Summer

Analysis of the relation of reading ability to academic achievement; reading skills needed in content area reading; reading difficulties encountered by

students in secondary schools. *Prerequisites:* READ 3323 and READ 3325 (except for meeting requirements of secondary professional development certification).

Rehabilitative Services

REHS 2301 Introduction to Rehabilitation [3-0] *Fall, Spring and As Scheduled*

Introduction to the field of rehabilitation and rehabilitation professions and specialties (e.g., Rehabilitation Counseling, Vocational Evaluation, Job Placement). The course addresses theory and practice of rehabilitation as well as the history, philosophy and legislative basis for the programs and professions. Includes an overview of the needs of individuals with disabilities and the effects disabilities have upon personal, social and vocational adjustment. The independent living rehabilitation movement and the vocational rehabilitation process are discussed, along with the impact individuals with disabilities have upon the nation's economy. Community resources and agencies that provide services to people who have disabilities are explored. May include field trips, guest lectures and community-oriented assignments.

REHS 2311 Disability Policy and Consumerism [3-0] *Fall, Spring and As Scheduled*

Provides an overview of legislation and policies (both federal and state) that impact people with disabilities. Issues related to incentives and disincentives of returning to work, insurance and federal benefits will be covered. Consumer empowerment and independent living will also be explored.

REHS 2321 Introduction to Substance Abuse [3-0] *Fall, Spring and As Scheduled*

Provides an introduction to the antecedents and the rehabilitation of the disability of substance abuse in the areas of vocational, social, familial, personal and physical areas. Includes information about multiple disabilities (e.g., physical and emotional disability and substance abuse).

REHS 2331 Psychology of Disability [3-0] *Fall and As Schedule*

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] *Spring*

Introduction to case management skills and techniques including interviewing will be taught. Applied and supervised learning experiences will be emphasized. *Prerequisites:* REHS 2301, REHS 2311, REHS 2331 and formal admission.

REHS 3320 Family and Disability [3-0] *Spring*

Covers relevant issues concerning the family of a person with a disability. Topics such as family dynamics, family support systems and the role of the family in adjustment to disability will be explored. Particular attention will be given to the Mexican-American family. *Prerequisites:* REHS 2301, REHS 2311, REHS 2331 and consent of instructor.

REHS 3330 Medical Aspects of Rehabilitation [3-0] *Spring*

Provides essential medical information to prepare students for working with Individuals with disabilities, physicians and employers. Information on etiology, prognosis and treatment procedures and vocational and independent living implications will be covered for each disability group. Also included in the course is information on medical specialties, therapeutic services, restorative techniques and medical terminology. This course offers the student the opportunity to learn how to assess the total impact of the disability more perceptively and accurately, and to assist the consumer in making more realistic vocational/independent living plans. *Prerequisites:* REHS 2301, REHS 2311 and REHS 2331.

REHS 4100 Independent Study [1-0] *As Scheduled*

Individualized study and investigation of rehabilitation topic under the direct supervision of a faculty member. A minimum of 25 clock hours per credit hour is required. May be repeated a total of four times. *Prerequisite:* Consent of instructor.

REHS 4301 Vocational Assessment [3-0]*Spring*

This course will focus on the vocational assessment of people within the rehabilitation process. Students will 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 2311, REHS 2331 and formal admission.

REHS 4302 Job Placement [3-0]*Fall*

A study of job placement theories, approaches and techniques will occur. The student will be introduced to the vocational implications of disability. Job-seeking skills, labor market surveys, job analysis, resumé writing and transferable skills analysis are some of the skills that are taught. *Prerequisites:* REHS 3330 and formal admission.

REHS 4303 Case Management II [3-0]*Fall*

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 3330 and formal admission.

REHS 4330 Clinical Topics in Rehabilitation [3-0]*Fall*

This course will focus on priority clinical issues and provide concentrated study in specific areas in rehabilitative services that appear timely. The focus will be placed on independent projects, presentation of papers and group discussion. A field-based clinical study project will be required. *Prerequisites:* REHS 2301, REHS 2311 and REHS 2331 or consent of instructor.

REHS 4350 Special Topics in Rehabilitation [3-0]*As Scheduled*

Selected topics in rehabilitation. May be repeated for up to 6 hours credit when topic varies. *Prerequisites:* REHS 2301, REHS 2311 and REHS 2331 or consent of instructor.

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, REHS 2311 and REHS 2331 or consent of instructor.

REHS 4602 Clinical Practicum in Rehabilitation*Spring*

Supervised, field-based clinical experience in a public or private setting serving the disabled. The practicum setting must meet specific program requirements and be approved by the University practicum supervisor. Weekly assignments will focus on daily components within the rehabilitation process and will be treated in a weekly group session. 320 clock hours, 20 field hours weekly plus 2 hours of regularly scheduled group supervision per week. *Prerequisites:* Completion of all REHS concentration courses and program approval.

ROTC (Military Science)

ROTC 1201 CPR/First Aid and Marksmanship [2-1.25]*As Scheduled*

Course will examine basic first aid procedures to include evaluation of victims/casualties, cardiopulmonary resuscitation, clearing the airway, and administering first aid. The course studies healthy lifestyle habits (diet, exercise, stress reduction) promoting health and wellness. Course includes studies in the fundamentals of rifle and pistol marksmanship along with practical experience on an outdoor range. Students have the opportunity to earn both CPR and first aid certification through national organizations. Students are encouraged to participate in the ROTC early morning fitness program and leadership laboratories.

ROTC 1202 Survival and Land Navigation Training [2-1.25]*As Scheduled*

An introduction to basic military science. Studies in basic military skills. Emphasis is placed on methods and techniques of survival and land navigation, but the course is also designed to enhance self-confidence and

physical fitness through active participation in adventure training. Includes a leadership laboratory to teach these principles. An optional weekend field training exercise is offered.

ROTC 2201 Applied Leadership and Management [2-1.5]

As Scheduled

An application of basic leadership and management principles. The course ethics apply based on leadership skills that develop individual abilities and contribute to the building of effective teams. Learn the role of the U.S. Army and Army communications skills such as oral presentations, writing concisely, planning of events, coordination of group efforts, fundamentals of ROTC's Leadership Development program. Two hours and a required leadership lab. Optional weekend field training exercises are offered.

ROTC 2202 Intermediate Leadership and Management Techniques [2-1.5]

As Scheduled

Learn techniques for training others as an aspect of continued leadership development. Supervisory personnel and motivational techniques are studied through placement of students in positions of small unit leaders given assigned tasks. Introduction to basic tactical mission applications and principles. Two hours and a required leadership lab. Optional weekend field training exercises are offered.

ROTC 3201 Basic Army Physical Development [3-1.25]

As Scheduled

An in-depth study of the Army's physical fitness program. From this curriculum, a student can develop a physical fitness program that best suits one's ability or physical desire. One can learn to perform individual physical assessments. Other topics include nutrition, stress management, mental fitness/performance enhancement and physical training. Includes limited outdoor physical conditioning and a leadership laboratory.

ROTC 3202 Advanced Army Physical Development [3-1.25]

As Scheduled

A practicum in physical development where a student applies the physical development skills learned in Basic Army Physical Development and applies them to a program that best suits the individual. The student will

be tested in accordance to FM 21-20 and The Army Physical Fitness Test to determine his or her ability and AR 600-9 in attainment of a physical goal. Includes extensive outdoor physical conditioning and a leadership laboratory.

ROTC 3401 Advanced Military Leadership [2-3]

As Scheduled

This course introduces the student to the responsibilities, character and uniqueness of the commissioned officer as a professional. Topics include the role of the small unit leader, radio communications, advanced military leadership, tactical operations and oral communications. Weekend field training exercises are mandatory. *Prerequisite:* Advanced ROTC standing.

ROTC 3402 Small Unit Tactics [2-3]

As Scheduled

Analysis of the leader's role in directing and coordinating the efforts of individuals and platoon-sized units in the execution of offensive and defensive tactical missions, make-up and preparation of the five paragraph field order, land navigation and patrolling. *Prerequisite:* Advanced ROTC standing.

ROTC 3604 Internship in Military Science

As Scheduled

The purpose of the Advanced Camp is to train leadership and evaluate officer potential. Technical/tactical proficiency and leadership skills will be put to the test in a carefully planned and stressful training sequence. Light infantry tactics are the individual training vehicle. *Prerequisite:* ROTC 3402.

ROTC 4401 Staff Management and Responsibilities [2-3]

As Scheduled

An examination of the garrison and administrative responsibilities of the commissioned officer. An in-depth analysis of staff procedures, the military writing program, advanced leadership assessment and the decision-making process. Precommissioning actions will also be conducted. Weekend field training exercises are mandatory. *Prerequisites:* Advanced standing, ROTC 3401 and ROTC 3402.

ROTC 4403 Advanced Military Science [2-3]

As Scheduled

This course includes the ethical and professional responsibilities of the commissioned officer and studies the military justice system as well as the Army training

system and customs and traditions of the Army from the perspective of a newly commissioned second lieutenant. Weekend field training exercises.

Prerequisites: Advanced ROTC standing, ROTC 3401 and ROTC 3402.

Russian

RUSS 1341 Beginning Russian [3-0]

As Scheduled

An introductory course designed to teach students the basic elements of the Russian language. Emphasis on speaking, comprehension, writing and reading.

Sociology

SOC 1313 Principles of Sociology [3-0]

(Texas Common Course Number is SOCI 1301.)

Fall, Spring, Summer

The social group, culture and personality; social institutions; social interaction; social change. *Credit Restriction:* Credit may be received in only one of SOC 1313 or SOC 1387.

SOC 1323 Current Social Issues [3-0]

(Texas Common Course Number is SOCI 1306.)

Fall, Spring

A sociological analysis of selected social issues present in current society.

SOC 1325 Japanese Society [3-0]

As Scheduled

A basic survey of Japanese social structure, institutions and social history. This course is designed to familiarize students with contemporary Japanese society and culture.

SOC 1387 Principles of Sociology (Honors Plan) [3-0]

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 SOC 1313 or SOC 1387. *Prerequisite:* Admission to Honors Studies or by invitation.

SOC 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. *Prerequisites:* 3 hours of mathematics (except MATH 2306) and SOC 1313 and SOC 1323 or consent of instructor.

SOC 2324 Social Psychology [3-0]

(Texas Common Course Number is SOCI 2326.)

Fall

Principles of social psychology with sociological emphasis of symbolic interactionism. Topics include differences between humans and animals, language and symbols, human development and the instinct controversy.

SOC 2332 Community [3-0]

As Scheduled

A consideration of community organization and problems and strategies for change. Special attention will be given to community organization and problems in the Rio Grande Valley.

SOC 2333 Marriage and the Family [3-0]

(Texas Common Course Number is SOCI 2301.)

Fall, Spring

A study of problems and an analysis of the factors contributing to successful marriages with study of surveys that have been made of this aspect of the social relations of men and women.

SOC 3301 Methods of Social Research [3-0]

Spring

Use of scientific method in social research; formulation of research designs, hypothesis testing, sampling, interviewing, observation, coding, use of documents, questionnaires and scales. Emphasis on interpretation of social data. *Prerequisites:* SOC 1313 and SOC 2301 or consent of instructor.

SOC 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 sports builds character will be examined along with cultural issues such as deviance, retirement and competition.

SOC 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. *Prerequisite:* 3 hours of sociology or consent of instructor.

SOC 3326 Contemporary Issues in Social Psychology [3-0]

As Scheduled

A review and discussion of recent issues and advances in social psychology. This course will focus on contemporary concerns with regard to both theory and research in the laboratory and the community.

Prerequisite: PSY 2324 or SOC 2324.

SOC 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. *Prerequisite:* SOC 1313 or consent of instructor.

SOC 3343 Social Issues in Japan [3-0]

As Scheduled

An examination of the social issues that Japanese society is facing in its attempt to maintain ancient traditions while changing into a post-industrial society. *Prerequisites:* SOC 1313 and SOC 1325, or consent of instructor.

SOC 3344 Societies in Global Perspective [3-0]

Spring

The course is rotated to examine 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.

SOC 3363 The Sociology of Religion [3-0]

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.

SOC 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.

Prerequisite: 3 hours of sociology or consent of instructor.

SOC 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. *Previous Course Numbers:* SOC 4311 and PSY 4311; a student may receive credit in only one course. *Prerequisite:* 6 hours of sociology or consent of instructor.

SOC 4313 American Minorities [3-0]

Fall, Spring

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. *Prerequisite:* 6 hours of sociology or consent of instructor.

SOC 4314 Sociology of Deviance [3-0]

Spring

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:* 6 hours of sociology or consent of instructor.

SOC 4320 The Sociology of the Family [3-0]

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.

SOC 4323 The Mexican-American People [3-0]

Fall, Spring

Presents an examination of the Mexican-American's economic status, cultural values, style of life, educational attainment, family status and political participation as affected by current socio-economic conditions and their historical antecedents. *Prerequisites:* 6 hours of sociology and/or anthropology or consent of instructor.

SOC 4325 Cultural Sociology [3-0]

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.

SOC 4326 Population and Society

As Scheduled

This course will address the issues of human populations by studying the social processes of births, deaths and migration. The course will study the so-called "population explosion" in developing societies and look as to how the population increase in these societies is affecting the social institutions such as education, the family, government, etc. These and other related questions will be addressed. *Prerequisite:* SOC 1313.

SOC 4333 Social Theory [3-0]

Spring

A survey of historical development and the theories of major sociologists. *Prerequisite:* 9 hours of sociology or consent of instructor.

SOC 4352 Social Inequality [3-0]

Fall, Spring

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

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the poor and how inequality among the social classes is built into the culture and institutions of society (e.g., government, economics, religion, family). *Prerequisite:* SOC 1313 or consent of instructor.

SOC 4360 Sociology of Education [3-0]

As Scheduled

Social and institutional organization of education and the profession of teaching. Class, ethnic and other social factors affecting the educational process and the effect of educational institutions and practices on the community and society. *Prerequisite:* SOC 1313 or consent of instructor.

SOC 4380 Social Protest and Social Movements [3-0]

As Scheduled

An investigation of the careers of protest and movement organizations. Special attention is directed to the structure of these organizations and the dilemmas and problems they encounter. Case studies are included. *Prerequisite:* SOC 1313 or consent of instructor.

SOC 4383 Independent Studies

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 9 hours is permitted as topics vary. *Prerequisite:* 9 hours of sociology and consent of instructor.

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. *Previous Course Title:* Introduction to Social Work; a student may not repeat the course for credit.

SOCW 2301 Statistics for the Human Services

This course orients the students to basic statistics concepts and procedures that are needed for generalist social work practice. Students learn techniques for data analysis using chi-square, t-test, Pearson Correlation Coefficient, and ANOVA. Additionally, students use statistical software to compute inferential statistics.

SOCW 2314 The Social Welfare Institution [3-0]

Fall, Spring

This course is a continuation of the introductory level course with emphasis on 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. *Previous Course Title:* Social Welfare Legislation; a student may not repeat the course for credit.

SOCW 3314 Social Welfare Policy and Programs [3-0]

Fall, Spring

Examines economic, political, intellectual, sociocultural, leadership, values and ideologies and other such factors that shape social welfare policy, programs and services. Addresses various frameworks for studying social policy and examines the roles of policy-makers, process of social change and the role of the social worker as a facilitator of change. *Prerequisites:* SOCW 1313 and SOCW 2314.

SOCW 3321 Human Behavior and the Social Environment I [3-0]

Fall, Spring

This course examines how biological and ecological forces, family beliefs and practices, cultural customs, societal normal, psychological processes, and interaction

with other human beings and social institutions influences human behavior. Particular attention is given to the development period from infancy to adolescence. A student may receive credit in only one course.

Prerequisite: SOCW 1313.

SOCW 3322 Human Behavior and the Social Environment II [3-0]

Fall, Spring

Designed to provide the students with an understanding of human behavior and the social environment as a continuation of SOCW 3321 with emphasis on the later years of the life span with implications for social work practice. *Prerequisites:* SOCW 1313, 6 hours in sociology and/or psychology, and SOCW 3321 or consent of instructor. Previously SOCW 2324.

SOCW 3323 Social Work Practice I [3-0]

Fall, Spring

Through classroom and community work, the student examines some of the necessary knowledge, attitudes, values and skills upon which problem-solving is based and learns how the generalist approach to practice is basic to all service-giving in social work. *Previous Course Title:* Methods in Social Work Practice; a student may not repeat the course for credit.

Prerequisites: SOCW 1313, SOCW 2314 and SOCW 3321.

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 6 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 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 3335 Women's Issues in Social Services

This course examines societal realities affecting women as individuals, as members of ethnic groups, as clients, and as social workers. The curriculum focus is on intervention strategies that empower women and seek to adequately address the needs of women as individuals, clients and as social work practitioners.

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 3345 Occupational Social Work [3-0]

As Scheduled

This course is designed to examine the social worker's role within industrial and occupational settings. The course will examine the work environment and its linkages to the individual, the family and the community. Various models of employee social service programs, e.g., employee assistance programs, job well being and enhancement programs, and on-site counseling models, will be studied. *Previous Course Title:* Industrial Social Work; a student may not repeat the course for credit.

SOCW 3350 Groups in Social Work [3-0]

As Scheduled

Provides a general orientation to small groups in social work practice. Students will examine the values, objectives and principles of social work group practice. Through classroom participation, the various group theories, concepts, dynamics and processes will be experienced. Focus will be on group leadership and development of self-awareness to illustrate the worker's role in facilitating the processes of group and individual development. *Prerequisite:* Junior or consent of the instructor.

SOCW 3351 Schools in Social Work

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 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 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 learn how to apply the problem-solving process to bring about social and economic justice. *Prerequisite:* SOCW 3323.

SOCW 4311 Research for the Social Services [3-0]

Fall, Spring

This course introduces students to the scientific method and how it is used by social workers to effect social change, improve the delivery of social services and to evaluate practice. This course was previously listed as SOCW 3353. A student may receive credit in only one course

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]
As Scheduled

The purpose of this course is to examine the phenomenon of domestic violence. Students will study the family structures in which violence occurs, the range (from verbal abuse to homicide) and its extent in society, and the various attitudes toward it. Understanding of the basic theories of violence, 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
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 4619 Field Education
Fall, Spring

This course requires a minimum of 480 hours (four days a week for one semester) of in-the-field experiences in established social agencies or community settings under joint supervision of the agency social worker and a Department of Social Work faculty member. SOCW 4619 is taken concurrently with SOCW 4353. *Prerequisites:* Approval by the Office of Field Instruction.

Spanish

MCLL 2301 Special Topics in Modern/Classical Literature [3-0]

This special topics course explores the literary manifestations of the Classical and Modern world. Using a historical approach to the study of literature, the students examine the evolution of literary genres or movements in Classical and Modern cultures. The objective of this course is to expand the student's knowledge of the human condition and human cultures, especially in relation to behaviors, ideas and values expressed in literary works.

SPAN 1301 Beginning Spanish [3-0]
(Texas Common Course Number is SPAN 1313.)
Fall, Spring, Summer

A course designed to develop the ability to understand, speak, read and write the Spanish language. Open only to persons who are monolingual. *Credit Restriction:* A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1302 Beginning Spanish [3-0]
(Texas Common Course Number is SPAN 1314.)
Fall, Spring, Summer

A continuation of SPAN 1301. *Credit Restriction:* A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388. *Prerequisite:* SPAN 1301.

SPAN 1303 Beginning Spanish [3-0]
(Texas Common Course Number is SPAN 2313.)
Fall, Spring, Summer

A course designed to develop the ability to read and to write the Spanish language. For students who are bilingual. *Credit Restriction:* A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1304 Beginning Spanish [3-0]
(Texas Common Course Number is SPAN 2315.)
Fall, Spring, Summer

A continuation of SPAN 1303. *Credit Restriction:* A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388. *Prerequisite:* SPAN 1303.

SPAN 1387 Beginning Spanish (Honors Plan) [3-0]

As Scheduled
A beginning Spanish course designed to meet the needs of Honors students interested in learning to read and

write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. *Credit Restriction:* A student may receive credit in only one of SPAN 1301, SPAN 1303 or SPAN 1387.

SPAN 1388 Beginning Spanish (Honors Plan) [3-0]

As Scheduled

A beginning Spanish course designed to meet the needs of Honors students interested in learning to read and write Spanish fluently at an accelerated pace. Some readings and culture will be introduced. Open to students needing systematic introduction to the Spanish language. *Credit Restriction:* A student may receive credit in only one of SPAN 1302, SPAN 1304 or SPAN 1388.

SPAN 2301 Technical Spanish I

In this course we will review grammatics and introduce the student to technical terminology in Spanish. The student will 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

This course is a continuation of SPAN 2301. The student will 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 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 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]**
As Scheduled
Review of basic principles and Spanish nomenclature of political economy, accounting, marketing, management and finance. Theory and practice of commercial and civil registers. Difference between U.S. and Latin American business and government practices. Correspondence and report writing. *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 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]**
As Scheduled
A critical study of the most representative prose 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 4331 Problems in Grammar, Dialects and Language Performance [3-0]*As Scheduled*

A study of the second language learner's transition from regional Spanish to standard English. Emphasis on the particular characteristics of the English and Spanish dialects of the region and the manner in which they interrelate. The course will treat theory already learned as well as that presented in the course in the light of practical methodological tools.

Prerequisite: SPAN 2308.**SPAN 4335 Spanish-English Legal Translation [3-0]***As Scheduled*

Intensive practice in the translation from Spanish to English of contracts and government regulations, as well as texts relating to both civil and criminal court cases and extracts from the civil registries of Hispanic countries. *Prerequisite:* SPAN 2308.

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]*As Scheduled*

A survey of the literature of Spain covering the neoclassic from Feijoo to Fernández de Moratín. *Prerequisite:* SPAN 2308.

SPAN 4338 Nineteenth Century Spanish Literature [3-0]*As Scheduled*

A survey of the literature of Spain covering the two main literary movements: Romanticism and Realism.

Prerequisite: SPAN 2308.**SPAN 4339 The Spanish-American Short Story [3-0]***As Scheduled*

A study of the evolution of this genre in Spanish-American literature themes, techniques and literary movements will be investigated. The writers studied in this course will include: Echeverría, Palma, Gutiérrez Nájera, Quiroga, Borges, García Márquez, Fuentes and others.

SPAN 4340 The Spanish-American Essay [3-0]*As Scheduled*

A study of this genre in Spanish-American literature. Themes, content, style and literary movements will be studied. The writers studied in this course will include: Andres Bello, Justo Sierra, Antonio Caso, Vasconcelos, Samuel Ramos, Alfonso Reyes, Altamirano, Octavio Paz, Leopoldo Zea and others.

Special Education

SPED 1305 Introduction to the Exceptionalities [3-0]*Fall, Spring, 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 Computer Applications and Adaptations for Individuals with Disabilities [3-0]*Fall, Spring*

The focus of this course will be adapting computer software and equipment to meet the educational needs of individuals with disabilities. *Prerequisite:* CSCI 1300 or CIS 1301 or consent of instructor. Course may be taken without admission into the College of Education.

SPED 3301 Inclusion of the Exceptionalities [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. Field experiences are required. (Field-Based Approved Course.)

SPED 3302 Theories of Learning Disabilities [3-0]*Fall, 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 SPED 4372 or consent of the instructor.

SPED 4300 Testing and Assessment of Exceptional Individuals [3-0]*Fall, Spring, 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 or SPED 4372.

SPED 4301 Strategies, Methods and Materials for Teaching Individuals with Mild to Moderate Disabilities [3-0]*Fall, Spring, Summer*

This course will include topics such as learning styles, cooperative learning, whole language, manipulatives, materials and strategies for teaching individuals with disabilities. Field-based experiences are required. *Prerequisite:* SPED 1305 or SPED 4372 or consent of instructor.

SPED 4303 Theories of Social Competence and Behavioral Interventions [3-0]*Fall, Spring, Summer*

The content of this course includes the diverse intervention processes and theories in social skills intervention, behavior modification, cognitive-behavioral strategies and crisis prevention intervention. Field experiences are required. *Prerequisite:* SPED 1305 or SPED 4372 or consent of instructor.

SPED 4309 Program Planning of Secondary Special Education [3-0]*Fall, Spring*

This course will address the needs of secondary special education students, including vocational and career assessment, vocational programming, and transitional planning. Field experiences are required. (Field-Based Approved Course.) *Prerequisite:* SPED 1305 or SPED 4372 or consent of instructor.

SPED 4372 Individual Differences [3-0]*Fall, Spring, Summer*

The content of this course will include the nature of individual differences with emphasis on the learning characteristics and application of research and theory to special education programs. There will be an emphasis on psychological, sociocultural and physical characteristics of exceptional individuals. Analysis of major research regarding contemporary trends, issues and programs for exceptional individuals will be presented. *Prerequisites:* SPED 1305, SPED 4302, SPED 4303, SPED 4309, SPED 4371 or approval of instructor.

Statistics

STAT 2330 Survey of Elementary Statistics [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 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 1321. It is highly recommended that the student have some knowledge of statistics such as is offered in STAT 2330.

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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. *Prerequisite:* STAT 3337 or MATH 3337.

FILM STUDIES

Although UTPA does not have a formal program leading to a degree in Film Studies, a number of faculty members offer courses on films. The courses are listed below:

COMM 3316 Intercultural Communication

An examination of communication behaviors across cultural lines that uses major films (e.g., *Passage to India*, *Witness*, and *Merry Christmas*, *Mr. Lawrence*) to illustrate and demonstrate those behaviors. Offered once every three semesters.

COMM 6360 Historical Studies in Mass Media

A graduate seminar that uses film and television to examine different "topics" in communication. Topics include "Film and Television as Propaganda," and "Political Communication." Offered once every three semesters.

A special topics course that is designed to introduce students to the use of feature films as historical evidence. The goal is to teach students how to "read" films as historical documents. The focus is on popular U.S. films since 1930 that offer social commentaries on their times. Six themes are examined: 1) War; 2) Technology and Conformity; 3) Mass Politics; 4) Poverty and Affluence; 5) Rebellion; and 6) Oppression.

**POLS 3318 (Special Topics in Political Science):
The Political Film**

Offered during the fall semester of odd-numbered years. This course explores how films have addressed various political topics, including such issues as racism and sexism, politics and corruption, crime as a metaphor for the U.S. political system, individual autonomy vs. institutional obligations and the concept of community.

Undergraduate
**GLOSSARY &
FACULTY LISTING**

Undergraduate **GLOSSARY** **OF TERMS**

[3-0] or [3-0-12] (for example)

Regularly scheduled classes at UT Pan American have prescribed contact hours (the actual number of hours each week a student will spend in lecture, laboratory and/or clinical sessions for that class) that are shown in brackets to the right of the course title in each department's course listings. The first number denotes the number of lecture contact hours; the second number denotes the laboratory contact hours; and a third number, if included, is the number of clinical contact hours. These numbers apply to the courses as they are scheduled for the fall or spring semester. Summer weekly contact hours will be adjusted to compensate for the shorter duration of the semester. Examples:

[3-0] The class will have 3 hours of lecture per week.

[2-3] The class will meet for 2 hours of lecture and 3 hours of laboratory per week.

[3-0-12] The class will have 3 hours of lecture and 12 hours of clinical experience each week.

Accreditation — college or university

A college or university in the United States is considered accredited if it is recognized by one of the following regional accrediting agencies:

- Middle States Association of Colleges and Schools
- New England Association of Schools and Colleges
- North Central Association of Colleges and Schools
- Northwest Association of Schools and Colleges
- Southern Association of Colleges and Schools
- Western Association of Schools and Colleges

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 The University of Texas-Pan American is the 12th class day for regular fall and spring semesters or the fourth class day for summer sessions.

Common Course Number

If the course is generally equivalent to other lower-division courses taught at universities and community colleges within the state, the Texas Common Course Number is shown in the course description for informational purposes. See pages 24-25 for further information.

Contact Hours

Number of regularly scheduled hours per week that a lecture, laboratory or clinical experience is scheduled to meet during a long semester. (See [3,0] above.)

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 9 hours of credit during a regular semester, or at least 4 hours of credit during a summer session, is considered full-time.

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 6-8 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 6-11 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 9-11 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 1 hour. The majority of classes meet three periods or their equivalent each week and carry 3

hours of credit. Two or 3 laboratory hours per week are usually required for 1 hour of laboratory credit.

Leveling Work

Coursework designed to eliminate deficiencies in educational background of students admitted or being considered for admission to a graduate program is called Leveling Work. (Graduate programs are designed on the assumption that students have a common body of knowledge.)

Maximum Course Load

The maximum load for a full-time undergraduate student is 18 hours in a regular semester and 15 for each summer session. Students may be permitted to enroll for additional hours with the approval of his or her undergraduate advisor and the dean of the college.

MTEL

The MTEL (Michigan Test of English Language) is one of the two major English language proficiency tests for non-native speakers of English. The other exam is the TOEFL, Test of English as a Foreign Language. Only the TOEFL is administered at UT Pan American.

Prerequisite

A course listed with a prerequisite means that specified requirements must be met before one can enroll in the course. Specific prerequisites are listed in course descriptions.

Probation

Students are placed on scholastic probation when they fail to achieve the required overall grade point average. Students may be placed on disciplinary probation for infraction of any University regulation. In either case, they must satisfy specific requirements before they can return to a non-probationary status. For further information, refer to the section in this catalog on Scholastic Probation and Suspension on page 42 for undergraduate students and to the Graduate Catalog for graduate students. The Student Conduct and Disciplinary Code is discussed on page 76.

Regular Semester

A regular semester is any 15-week fall or spring semester.

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Residence, Coursework in

Coursework in residence refers to coursework actually completed on the UT Pan American campus. Extension, credit by examination, correspondence and transfer credit may not be used to complete the residency requirement for graduation.

Returning Student

A student whose last institution attended was UT Pan American is admitted as a Returning Student after an absence of at least one regular semester.

Semester (see Regular Semester)**Special Student**

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

Special Graduate Student

Special graduate students are those holding a master's degree from an accredited institution who do not wish to enter a graduate program but wish to attend courses.

Summer Session

As part of its regular program, the University offers two summer sessions, each five-and-one-half weeks long.

Three-Quarter Time Undergraduate

A three-quarter time undergraduate student is one who is enrolled for 9-11 semester hours during the regular semester.

Transfer Students

Students admitted as transfer students have last attended an accredited college or university other than, or in addition to, UT Pan American.

Upper Division (see Advanced-level Work)

FACULTY LISTING

Abraham, John P., *Associate Professor*, Department of Computer Science; Networking; Ed.D., University of Houston, 1986.

Adair, Penelope A., *Associate Professor*, Department of History and Philosophy; History; Ph.D., University of California at Santa Barbara, 1993.

Ahmad, Hassan, *Associate Professor*, Department of Chemistry; Biochemistry; Ph.D., Aligarh Muslim University, 1983.

Alamia, Alfonso J., *Assistant Professor*, Department of Psychology and Anthropology; Psychology; Developmental, Adolescence, Behavior Modification, Bilingual Testing; Ph.D., University of New Mexico, 1985.

Aldridge, James W., Jr., *Professor*, Department of Psychology and Anthropology; Psychology; Perception, Cognition, Memory; Ph.D., State University of New York at Binghamton, 1976.

Alexander, Steven A., *Assistant Professor*, Department of Physics and Geology; Gamma Ray Analysis; Ph.D., The University of Texas at Austin, 1982.

Alianak, Sonia, *Assistant Professor*, Department of Political Science; Comparative Government, International Relations, American Government; Ph.D., The University of Texas at Austin, 1987.

Allison, Margaret R., *Assistant Professor*, Department of Computer Information Systems and Quantitative Methods; Computer Information Systems; MEd, University of Houston, 1976.

Allison, Terry C., *Professor*, Department of Biology; Parasitology, Marine Zoology; Ph.D., Texas A&M University, 1967.

Alvarado, Frances E., *Lecturer*, Department of Mathematics; MEd, The University of Texas-Pan American, 1994.

Alvarado, Jose F., *Lecturer*, Department of Mathematics; Curriculum and Instruction; MA, Texas A&M University, 1983.

Alvarado, Victor, *Professor*, Department of Educational Psychology; Educational Leadership, Guidance and Counseling; Ed.D., Western Michigan University, 1976.

Ambriz, Frank, *Clinical Assistant Professor and Interim Chair*, Physician Assistant Studies Program; Pediatrics, Pulmonology, Internal Medicine; BS, The University of Texas Medical Branch-Galveston, 1979.

Anderson-Mejias, Pamela, *Associate Professor*, Department of English; Applied Linguistics, Second Language Acquisition; Ph.D., Indiana University, 1980.

Appiahene-Gyamfi, Joseph, *Assistant Professor*, Department of Criminal Justice; Criminology; International Criminal Justice; Corrections; Ph.D., Simon Fraser University, 1999.

Ardalani, Elvia G., *Lecturer*, Department of Modern Languages and Literature; Spanish; Ed.D., Texas A&M University, 1986.

Arizmendi, Lydia, *Assistant Professor*, Department of Social Work; Generalist Social Work Practice and Marco Practice; J.D., University of California, 1998; MSW, University of Michigan, 1973.

Arnold, Sharon T., *Lecturer*, Department of Mathematics; Mathematics, MA, North Texas State University, 1977.

Asghorian, Laleh, *Lecturer*, Department of Mathematics; Differential Equations, Modeling; MS, University of Texas Pan American, 1997.

Assefa, Zewdineh, *Associate Professor*, Department of Economics, Finance and General Business; Finance; Ph.D., University of Illinois, 1980.

Atamian, Rubik, *Assistant Professor*, Department of Accounting and Business Law; Accounting; Ph.D., The University of Texas at Austin, 1984.

Avellano, George, *Professor*, Department of Management, Marketing and International Business; Associate Vice President for Academic Affairs for Graduate Programs and Research; Marketing; Ph.D., University of Oklahoma, 1975.

Bacchus, Donna, *Clinical Specialist*, Department of Nursing.

Balda, Alicia M., *Assistant Professor*, Occupational Therapy Program.

Balderrama, Rafael J., *Lecturer*, Department of Sociology; Ph.D., Science & Technology Studies, Virginia Polytechnic Institute & State University, 1996.

Barnet, Gary, *Lecturer*, Department of Music, Ph.D.

Bastida, Elena, *Professor*, Department of Sociology; Aging, Theory, Gender Roles; Ph.D., University of Kansas, 1979.

Behar, Stella, *Associate Professor*, Department of Modern Languages and Literature; French; Ph.D., University of California, Los Angeles, 1991.

Ben Ghalia, Mounir, *Assistant Professor*, Department of Electrical Engineering; Systems Modeling and Robust Control, Robotics, Neural Networks, Knowledge-Based Systems; Ph.D., Tennessee Technological University, 1995.

Bernard, John E., *Professor*, Department of Mathematics; Mathematics Education; Ph.D., The University of Texas at Austin, 1978.

Bhat, Narayan, *Associate Professor*, Department of Chemistry; Organic Chemistry; Ph.D., Pune University, India, 1982.

Bhatti, Muhammad Idrees, *Assistant Professor*, Department of Physics and Geology; Atomic Physics; Ph.D., University of Notre Dame, 1987.

Bloom, Leonard, *Assistant Professor*, Department of English; Modern American and Modern British Literature; MA, St. Mary's University, San Antonio, 1968.

Bokina, John, *Professor*, Department of Political Science; Political Theory, Western and Eastern Europe; Ph.D., University of Illinois, 1979.

Bose, Subhash C., *Professor*, Department of Engineering; Manufacturing Engineering; Computer-Aided Manufacturing, Robotics and Stochastic Modeling and Control; Ph.D., University of Wisconsin-Madison, 1987.

Bowen, Judith E., *Associate Professor*, Department of Occupational Therapy; MPA, University of Memphis, 1979; OTR, Columbia College of Physicians & Surgeons, Columbia University, 1966.

Brazier, Pearl W., *Assistant Professor and Chair*, Department of Computer Science; Programming Languages, Software Engineering; MS, Virginia Polytechnic Institute and State University, 1981.

Brewerton, F. J., *Professor*, Department of Management, Marketing and International Business; Management; DBA, Louisiana State University, 1968.

Briones, Esperanza R., *Associate Professor and Program Coordinator*, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., Michigan State University, 1982.

Brown, Cynthia, *Assistant Professor*, Department of Economics and Finance; Finance; Ph.D., The University of Texas-Pan American, 1998.

Brown, Lenard, *Assistant Professor*, Department of Art, Painting and Printmaking; MFA, Ohio State University, 1997.

Browne, Peter E., *Associate Professor*, Department of Modern Languages and Literature; Spanish; Ph.D., University of Nebraska, 1993.

Brush, Timothy, *Professor*, Department of Biology; Zoology; Ph.D., Rutgers University, 1985.

Buckman, Kenneth L., *Associate Professor*, Department of History and Philosophy; Philosophy; Continental Philosophy, Oriental Philosophy, Social Philosophy, 19th and 20th Century Philosophy; Ph.D., Southern Illinois University, 1990.

Butler, Brian, *Lecturer*, Department of History & Philosophy.

Cain, Roy E., *Associate Professor*, Department of Psychology and Anthropology; Psychology; Physiological Psychology, Biofeedback, Psycho-Physiology, Stress Management; Ph.D., Texas Tech University, 1972.

Canales, Patricia, *Assistant Professor*, Pharmacy Program.

Cantu-Cabrera, Juana, *Lecturer*, Department of Nursing.

Canty, Dean R., *Associate Professor*, Department of Music; High Brass; University Band Director, Jazz Ensemble Director; DMA, The University of Texas at Austin, 1980.

Cararas, Sandra A., *Assistant Professor*, Department of English; Technical Writing, Shakespeare, Renaissance and 17th Century English Literature; MA, Northeast Louisiana University, 1968.

Cardeña, Etzel, *Associate Professor and Chair*, Department of Psychology and Anthropology; Psychology; Dissociative States, Hypnosis, Post-Traumatic Stress Disorders; Ph.D., University of California at Davis, 1988.

Cardenas, Gilbert, *Professor*, Department of Economics and Finance; Economics; Ph.D., University of Illinois, 1977.

Carey, John, *Lecturer*, Department of Physics and Geology; Sedimentation, Quaternary Studies; Ph.D., Rutgers University, 1997.

Carlson, Ralph, *Associate Professor*, Department of Educational Psychology; Psychology (Quantitative Methods, Statistics, Theories of Personality); Ph.D., University of Houston, 1974.

Carter, David K., *Assistant Professor*, Department of History and Philosophy; Philosophy; Ethics, American Philosophy; Ph.D., Yale University, 1982.

Castrillon, Jose P., *Associate Professor*, Department of Chemistry; Organic Chemistry; Ph.D., University of Buenos Aires, 1951.

Cavazos, Alonzo, *Assistant Professor and Interim Chair*, Department of Social Work; Clinical Social Work, Administration; Ed.D., University of Houston, 1994.

Chance, Joseph E., *Professor*, Department of Mathematics; Combinatorics, Mathematical Modeling; Ph.D., The University of Texas at Austin, 1971.

Chandler, Karen, *Associate Professor and Program Coordinator*, Clinical Laboratory Sciences Program; MT (ASCP), MA, Central Michigan University, 1983.

Chen, Shihui, *Assistant Professor*, Department of Health and Kinesiology; Adapted Physical Education; Ph.D., New Mexico University, 1997.

Chen, Zhixiang, *Assistant Professor*, Department of Computer Science; Theoretical Computer Science; Ph.D., Boston University, 1996.

Chenoweth, Ann, *Assistant Professor*, Department of English; Rhetoric and Composition; Ph.D. Carnegie Mellon University, 1997.

Cochran, Diane, *Assistant Professor*, Health and Kinesiology.

Cohen, Nigel, *Assistant Professor*, Department of Criminal Justice; Criminal Law, Evidence and Procedure; Court System and Practices; J.D., University of Pittsburgh, 1995.

Contreras, Victoria, *Associate Professor and Interim Chair Graduate Advisor*, Department of Modern Languages and Literature; Spanish; Ph.D., The University of Texas at Austin, 1989.

Cortes, Angelica, *Assistant Professor*, Department of Management, Marketing and International Business; Marketing; Ph.D., University of Bradford, 1997.

Crews, R. Michael, *Associate Professor*, Department of Computer Information Systems and Quantitative Methods; Computer Information Systems; Ph.D., Utah State University, 1982.

Crews, Ruth, *Assistant Professor*, Department of Music; Voice; MM, The University of Texas at Austin, 1974.

Crown, Stephen W., *Associate Professor*, Department of Engineering; Mechanical Engineering; Ph.D., Iowa State University, 1993.

Cuenco, Edwin Joy, *Assistant Professor*, Department of Art, Graphic Design, Computer Graphics, MFA, George Washington University, 1998.

Curts, James, *Assistant Professor*, Curriculum and Instruction.

Dabrowski, Peter P., *Assistant Professor*, Department of Music.

Daniel, Clay L., *Associate Professor*, Department of English; 17th Century British Literature, Milton; Ph.D., Texas A&M University, 1988.

Dantzker, Mark, *Associate Professor*, Department of Criminal Justice; Police Administration; Police Issues; Research Methods; Ph.D., The University of Texas at Arlington, 1989.

Darsow, Fred, *Assistant Professor*, Department of Health and Kinesiology; Dance Program.

Davidson, Judy, *Lecturer*, Department of English; American Literature, Milton; MA, Hardin-Simmons University, 1974.

Dávila, Alberto, *Professor and Chair*, Department of Economics, Finance and General Business; Economics; Ph.D., Iowa State University, 1982.

Davis, Richard, *Assistant Professor*, Department of Music; Voice, DMA, Indiana University, 1985.

Debnath, Lokenath, *Professor and Chair*, Department of Mathematics, Pure and Applied Mathematics, Mathematical Physics; Ph.D. (Pre Mathematics), University of Calcutta, 1965; Ph.D. (Applied Mathematics), University of London, 1967.

DeHoyos, Librado R., Jr., *Associate Professor*, Department of Social Work; Director, BSW Program; Chicano-Latino Studies, Community Social Psychology, Social Work Education and Practice; MSW, Boston University, 1964.

De la Pena, Antonio M., *Assistant Professor*, Department of Biology; Anatomy and Physiology; MS, Texas A&I University, 1969.

DeLassus, Philip, *Professor, Chair*, Chemistry Department.

De los Santos, Gilberto, *Professor*, Department of Management, Marketing and International Business; Marketing; Ph.D., The University of Texas at Austin, 1972.

De los Santos Patricia, *Lecturer*, Department of Curriculum and Instruction.

De los Santos, Miguel, *Assistant Professor*, Department of School Administration and Supervision; Educational Administration; Ph.D., The University of Texas at Austin, 1980.

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.

Del Rio, Eduardo, *Lecturer*, Department of English; Renaissance, Latino Literature, Translation; Ph.D., Texas A&M University, 1996.

Delgado, Diana, *Assistant Professor*, Department of Nursing; MS, The University of Texas at Austin, 1980.

DeMoville, Wig B., *Professor and Chair*, Department of Accounting and Business Law; Accounting; CPA; Ph.D., Texas Tech University, 1978.

DeYoe, Hudson, *Assistant Professor*, Department of Biology; Algal Ecology, Sea Grass Ecology; Ph.D., Bowling Green State University, 1991.

Diaz, Sylvia, *Lecturer*, Department of Chemistry.

Dietrich, Gustavo G., *Lecturer*, Department of Computer Science; MS, Texas A&M University at Kingsville, 1988.

Dominguez, Sylvia M., *Professor*, Department of Modern Languages and Literature; Spanish; Ph.D., University of Arizona, 1971.

Dowdall, Shannon, *Assistant Professor*, Department of Nursing.

Dugas, Donna, *Assistant Professor*, Pedagogy and Kinesiology.

Dutremaine, James, *Lecturer*, Department of Art, Art Education; MFA, University of Texas-Pan American, 2000.

Eanes, Linda, *Assistant Professor*, Department of Nursing; MSN, Corpus Christi State University, 1990.

Ebaseh-Onofa, Benjamin O., *Associate Professor*, Department of Mathematics; Statistics; Ph.D., Texas A&M University, 1988.

Ecklund, Robert, *Lecturer*, Social Work Department.

Edionwe, Alexander O., *Associate Professor*, Coordinated Program in Dietetics; Registered Dietitian; Ph.D., University of Nebraska-Lincoln, 1991.

Edwards, Robert J., *Professor*, Department of Biology; Ichthyology, Ecology, Population Biology; Ph.D., The University of Texas at Austin, 1980.

Egle, Ardath L., *Lecturer*, Department of Biology; Anatomy and Physiology, Vertebrate Biology; MS, Pan American University, 1988.

Egle, David L., *Lecturer*, Department of Computer Science; Numerical Analysis, Systems Programming, Computer Organization; MS, Texas A&M University, 1977.

Eisenman, Russell, *Assistant Professor*, Department of Psychology and Anthropology; Clinical Psychology; Ph.D., University of Georgia, 1966.

Ellard, Charles J., *Professor*, Department of Economics, Finance and General Business; Economics; Ph.D., University of Houston, 1974.

Ellis, Catheryn, *Assistant Professor*, Department of Communication; Theater/TV/Film; MFA, The University of Texas, 1999.

Emery, John T., *Dean*, College of Business Administration; Professor, Department of Economics and Finance; Ph.D., University of Washington, 1969.

Erdem, Orelia, *Clinical Specialist*, Department of Nursing; MSN, Corpus Christi State University, 1987.

Estrada, Veronica, *Assistant Professor*, Department of Curriculum and Instruction; Curriculum and Instruction Education; Ph.D., The Ohio State University, 1998.

Ethridge, Philip, *Associate Professor*, Department of Criminal Justice; Criminal Justice Generalist, Police-Community Relations, Privatization, Corrections Law; Ph.D., Sam Houston State University, 1990.

Evans, Mary, *Clinical Specialist*, Department of Nursing.

Eyambe, George Sona, MT (ASCP) *Assistant Professor*, Clinical Laboratory Science Immunology; Ph.D., University of North Texas, 1991.

Faraji, Bahram, *Associate Professor*, Coordinated Program in Dietetics; Registered Dietitian; DPH, University of California, 1981.

Farooqui, Mohammed Y.H., *Professor and Chair*, Department of Biology; Physiology, Toxicology, Entomology, Cell Biology; Ph.D., University of Illinois, 1979.

Fatehi, Mohammed, *Lecturer*, Department of Mathematics; Linear Algebra, Statistics; Ph.D., New Mexico State University, 1996.

Faubion, Michael L., *Interim Chair, Associate Professor*, Department of History and Philosophy; History; Diplomate, Military & Environmental History; Ph.D., Texas Tech University, 1992.

Faulkes, Zen, *Assistant Professor*, Department of Biology; Neurobiology and Ethology; Ph.D., University of Victoria, 1996.

Feinberg, Martin, *Assistant Professor*, Department of Computer Information Systems and Quantitative Methods; Quantitative Methods; Ph.D., Louisiana Tech University, 1999.

Field, Philip S., *Professor*, Department of Art; Printmaking, Painting, Aesthetics; MFA, Rhode Island School of Design, 1965.

Fielding, Cheryl, *Assistant Professor*, Educational Psychology.

Folk, Ellen, *Assistant Professor*, Department of Accounting and Business Law; Tax and Business Law, CPA; JD, LLM, Quinnipiac College School of Law, 1992.

Foltz, Heinrich D., *Associate Professor*, Department of Electrical Engineering; Ph.D., The University of Texas at Austin, 1993.

Fowler, Richard H., *Professor*, Department of Computer Science; Interactive Systems; Ph.D., University of Houston, 1980.

Freeman, Robert A., *Associate Professor*, Department of Engineering; Mechanical Engineering; Ph.D., University of Florida, 1985.

Freeman, Samuel, *Associate Professor*, Department of Political Science; Political Parties, U.S. Presidency, Congress, Foreign Policy; Ph.D., University of Kentucky, 1978.

Friedman, Bruce, *Associate Professor/Chair*, Social Work Department.

Fuentes, Arturo A., *Assistant Professor*, Department of Mechanical Engineering; Ph.D., Rice University, 2000.

Galligan, Martha Villalobos, *Assistant Professor*, Department of Curriculum and Instruction; English Education; Ph.D., The University of Texas at Austin, 1994.

Ganguli, Gouranga, *Professor*, Department of Accounting and Business Law; Accounting; CPA, CMA, CIA; Ph.D., University of Mississippi, 1983.

Garcia, Carmela, *Lecturer*, Department of Modern Languages and Literature; Spanish; MAIS, Pan American University, 1986.

Garrett, T. Michael, *Lecturer*, Department of Political Science; Ph.D., University of Oklahoma, 1997

Garza, Juanita, *Lecturer*, Department of History and Philosophy; History; U.S. History; MAIS, Pan American University, 1984.

Garza, Viola, *Lecturer*, Department of Nursing; MSN, The University of Texas-Pan American, 1996.

Gassler, Christopher, *Lecturer*, Department of Music; Low Brass; MA, New England Conservatory of Music, 1992.

Ghanem, Salma, *Associate Professor and Department Chair*, Department of Communication; Journalism; Ph.D., The University of Texas at Austin, 1996.

Gilberts, Guy, *Assistant Professor*, Department of Curriculum and Instruction.

Gilpin, Jerry M., *Lecturer*, Department of Computer Science and Department of Mathematics; MS, Syracuse University, 1966.

Giucoco, Samuel E., *Assistant Professor*, Department of Physics and Geology; Acoustics; Ed.D., Oklahoma State University, 1971.

Glazer, Mark, *Professor*, Department of Psychology and Anthropology; Anthropology; Folklore, Anthropological Theory; Ph.D., Northwestern University, 1973.

Gomez, Leo, *Associate Professor*, Department of Curriculum and Instruction; Philosophy, Curriculum and Instruction, Bilingual/ESL; Ph.D., Texas A&M University, 1994.

Gonzalez, Genaro, *Professor*, Department of Psychology and Anthropology; Psychology; Social, Cross-Cultural; Ph.D., University of California at Santa Cruz, 1982.

Gonzalez, Juan, *Assistant Professor*, Department of Health and Kinesiology; Physiology/Fitness; Ph.D., Texas A&M University, 1995.

Gonzalez, Miguel A., *Assistant Professor*, Manufacturing Engineering Department; Training Simulators, Integrated Logistics Support, Manufacturing Systems, Work Science and Ergonomics, Applied Operations Research and Quality Management; Ph.D., University of Houston, 1995.

Gonzalez, Roberto, *Lecturer*, Department of Mathematics; Mathematics; MS, Pan American University, 1981.

Grabowski, Thomas E., *Assistant Professor*, Department of Communication; Theatre/TV/Film; MFA, University of Illinois-Urbana, 1982.

Greene, Walter E., *Professor*, Department of Management, Marketing and International Business; Management; Ph.D., PHR, University of Arkansas, 1976.

Gregorius, Roberto, *Associate Professor*, Department of Chemistry; Polymer Science and Engineering; Ph.D., University of Massachusetts, 1991.

Grossman, Morley K., *Associate Professor*, Department of Music; Piano; DMA, Indiana University, 1982.

Guerra, Dahlia, *Associate Professor and Chair*, Department of Music; Piano and History of Mexican Folk Music; DMA, University of Oklahoma, 1997.

Guerra, Marla, *Assistant Professor*, Department of School Administration and Supervision.

Guerra, Ramon S., *Assistant Professor*, Department of Sociology; Japanese Society, Mexican-Americans, Ethnicity and Religion; Ph.D., Southern Methodist University, 1989.

Guinn, Robert, *Professor and Program Coordinator*, Department of Health and Kinesiology; Health; Ph.D., Texas A&M University, 1974.

Gunn, Scott J., *Professor*, Department of Biology; Genetics, Vertebrate Zoology; Ph.D., Texas A&M University, 1986.

Guzman, Isabel (Penny), *Assistant Professor*, Department of Nursing; MSN, University of Puerto Rico, 1971.

Hamilton, Lee, *Associate Professor*, Department of English; 19th Century British Literature, Bibliography; Ph.D., Louisiana State University, 1982.

Hamilton, Rebekah, *Associate Professor*, Department of English; English Literature, World Literature, Composition; Ph.D., Texas A&M University, 1993.

Hannan, A.H.M., *Assistant Professor*, Department of Physics and Geology; Solar Energy; Ph.D., University of London, 1978.

Haule, James M., *Professor*, Department of English; Modern and Contemporary British Literature; Ph.D., Wayne State University, 1974.

Hausman, Angela, *Assistant Professor, Marketing*; Department of Management, Marketing and International Business; Ph.D., University of South Florida, 1998.

Heckler, Edward, *Associate Professor*, Department of English; Linguistics, ESL; Ph.D., Michigan State University, 1975.

Heller, William, *Associate Professor*, Department of Mathematics; Ph.D., University of Maryland, 1991.

Henggeler, Paul R., *Associate Professor*, Department of History and Philosophy; Recent U.S. History, American Presidency; Ph.D., Bowling Green State University, 1989.

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Hinojosa, Jose R., *Associate Professor*, Department of Political Science; Public Administration, Minority Politics; Ph.D., University of Notre Dame, 1980.

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Jabs, David, *Lecturer*, Department of Mathematics; Game Theory; MS, Texas A&I University, 1991.

James, Barbara, *Lecturer*, Department of Nursing.

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Jarvis, Susan S., *Professor*, Department of Accounting and Business Law; Business Law; JD, Tulane University School of Law, 1974.

Johnson, Betty A., *Associate Professor*, Department of Nursing; MSN, Texas A&M University-Corpus Christi, 1994.

Johnson, Robert, *Assistant Professor*, Department of English; American Literature, Southern Women Writers; Ph.D., University of Southern California, 1994.

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Jung, Euen Hyuk, *Assistant Professor*, Department of English; Linguistics, ESL; Ph.D., Georgetown University, 2001.

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Mahmood, Akhtar H., *Assistant Professor*, Department of Physics and Geology; High Energy Physics; Ph.D., State University of New York, Albany, 1998.

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Martinez, Jose Maria, *Assistant Professor*, Department of Modern Languages and Literature; Hispanic Literature; Ph.D., Universidad de Valladolid, Spain, 1991.

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Matthews, Linda, *Assistant Professor*, Department of Management, Marketing and International Business; Management; Ph.D., University of Washington, 1996.

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McBride, John, *Professor and Chair*, Department of Curriculum and Instruction; Elementary, Science Education, Mathematics Education; Ed.D., University of Houston, 1977.

McCormack, Brian, *Assistant Professor*, Department of History and Philosophy; Mexican and Latin American History; Ph.D., University of California-San Diego, 1999.

McLemore, George C., *Associate Professor*, Department of Communication; Communication Studies; Ph.D., University of Pittsburgh, 1985.

McQuillen, Jeffrey, *Assistant Professor*, Department of Communication; Communication Studies; Ph.D., University of Oklahoma, 1984.

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Mejias, Hugo, *Associate Professor*, Department of Modern Languages and Literature; Spanish; Ph.D., State University of New York at Buffalo, 1978.

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Mitchell, Paul, *Associate Professor*, Department of English; 19th Century British Literature, Rhetoric, Composition, Linguistics; Ph.D., University of Southern Mississippi, 1971.

Mizener, Charlotte, *Associate Professor*, Department of Music; Harp, Music Education; Ph.D., The University of Texas at Austin, 1990.

Mondal, Jalal U., *Professor*, Department of Chemistry; Inorganic Chemistry; Ph.D., University of New South Wales, 1979.

Monta, Marian F., *Professor*, Department of Communication; Theatre/TV/Film; Ph.D., Cornell University, 1971.

Montgomery, Gary T., *Professor*, Department of Psychology and Anthropology; Psychology; Developmental, Psychophysiology; Ph.D., Texas Tech University, 1972.

Morgan, Glynn, *Associate Professor*, Department of Political Science; U.S. and Texas Politics; MA, University of Mississippi, 1961.

Mottinger, Sue G., *Associate Professor*, Department of Health and Kinesiology; Administration, Physical Education; Ph.D., Texas Woman's University, 1981.

Mounce, Gary, *Associate Professor*, Department of Political Science; Mexico, Central and South American Politics; Ph.D., The University of Texas at Austin, 1977.

Moyer, Nancy J., *Professor and Chair*, Department of Art; Drawing, Metal/Jewelry Design; Ph.D., Southern Illinois University, 1970.

Moyes, Glen, *Associate Professor*, Department of Accounting and Business Law; Accounting; D.B.A., International University, 1991.

Mumford, Lisa L., *Assistant Professor*, Physician Assistant Studies.

Munn, Christopher, *Professor*, Department of Music; Music Theory, Music History; University Choir Director; DMA, University of Oklahoma, 1984.

Munn, Vivian, *Associate Professor*, Department of Music; Voice, Music Theory; DMA, University of Oklahoma, 1990.

Muñoz, Frank, III, *Lecturer*, Department of Health and Kinesiology; Health and Physical Education, Supervision; MEd, Pan American University, 1982.

Murray, K. Daniel, *Assistant Professor*, Department of Biology; Molecular Biology; Ph.D., The University of Texas at Dallas, 1995.

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Negrete, Dionisio, *Clinical Assistant Professor*, Physician Assistant Studies Program; General Surgery; MD, University of Missouri, 1960.

Neipert, David, *Assistant Professor*, Department of Accounting and Business Law; Business Law; JD, South Texas College of Law, 1974.

Nelson, Larry, *Lecturer*, Department of Health and Kinesiology; Pedagogy; MA, Colorado State University, 1995.

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Newman, Donald, *Professor*, Department of English; 18th Century British Literature, Johnson and Boswell Studies, Biography; Ph.D., University of Southern California, 1992.

Newman, Jane, *Associate Professor*, Rehabilitative Services Program; Certified Rehabilitation Counselor, Licensed Personal Counselor; Ph.D., University of Arizona, 1993.

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Nirenberg, Jacqueline, *Lecturer*, Department of Communication; Journalism; MA, The University of Texas at Austin, 1991.

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O'Neil, Lorne William, *Associate Professor*, Department of Music; Woodwinds; DMA, University of Minnesota, 1990.

Oliva, Maricela, *Associate Professor*, School Administration and Supervision.

Olsen, Janet, *Lecturer*, Department of Mathematics; MS, Utah State University, 1965.

Overton, Terry, *Associate Professor*, Educational Psychology.

Owusu-Ansah, Stephen, *Assistant Professor*, Department of Accounting and Business Law; Accounting; Ph.D., Queen's University of Belfast, 1998.

Ozuna, Teofilo, *Associate Professor*, Department of Economics and Finance; Economics; Ph.D., Texas A&M University, 1989.

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Parchman-Gonzalez, Keri, *Lecturer*, Department of Communication Sciences and Disorders; MA, The University of Texas-Pan American, 1989.

Paredes, Miguel, *Professor*, Department of Mathematics; Mathematical Economics, Mathematical Modeling; Ph.D., University of Utah, 1985.

Pearson, Thomas, *Associate Professor*, Department of History and Philosophy, Ph.D.

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Phillips, Richard, *Assistant Professor*, Department of Art, Art History, Ph.D., University of Texas at Austin, 1993.

Pipkin, Catherine, *Lecturer*, Department of English; English Literature, American Literature; MA, Pan American University, 1986.

Poelzer, Harold, *Associate Professor*, Department of Educational Psychology; Educational Psychology, Gifted Education; Ph.D., Purdue University, 1994.

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Pontius, Paul, *Assistant Professor*, Department of Mathematics; Mathematics Education; MA, University of Illinois, 1965.

Poorkarimi, Hushang, *Professor*, Department of Mathematics; Differential Equations, Applied Mathematics; Ph.D., The University of Texas at Austin, 1985.

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Prather, Charles, *Assistant Professor*, Department of History and Philosophy; History; U.S. Colonial; MA, North Texas State University, 1969.

Prock, Jerry D., *Professor*, Department of Economics and Finance; Economics; Ph.D., Arizona State University, 1970.

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Raajpoot, Uzzar A., *Associate Professor*, Department of Sociology; Statistics, Methods, Demography; Ph.D., University of Oregon, 1991.

Radford, Nola T., *Associate Professor*, Department of Communication Sciences and Disorders; Multicultural, Multilingual Fluency; Ph.D., University of Memphis, 1992.

Raimo, John, *Professor*, Department of Music; Piano, Music Literature; DMA, University of Rochester, New York, 1960.

Ramirez, Noe, *Assistant Professor*, Department of Social Work; Ph.D., University of Houston, 1998.

Ramirez, Olga M., *Associate Professor*, Department of Mathematics; Mathematics Education; Ph.D., Texas A&M University, 1985.

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Rea, Ramiro R., *Associate Professor*, Department of Modern Languages and Literature; Spanish; MA, Sam Houston State University, 1969.

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Reeve, Robert, *Professor*, Department of Curriculum and Instruction; Curriculum and Instruction, Science Education, Biology, Educational Research; Ph.D., Florida State University, 1966.

Reich, Dindy, *Lecturer*, Department of Art.

Reid, Charles R., *Assistant Professor*, Rehabilitation Services; Certified Rehabilitation Counselor; Ph.D., University of Arizona, 1997.

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Richardson, D. Chad, *Professor*, Department of Sociology; Borderlands Studies, Sociology of Education, Complex Organizations; Ph.D., The University of Texas at Austin, 1975.

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Rivera, Gustavo, *Lecturer*, Department of Mathematics; Mathematics and Computer Networks; MS, The University of Texas-Pan American, 1994.

Rivera, Maria Elena, *Lecturer*, Department of Political Science; MA, University of NE-Lincoln, 1998.

Rivers, Christopher, *Major*, Assistant Professor of Military Science; Liberal Studies; BA, University of New York, 1990.

Rocha, Rodolfo, *Dean*, College of Arts and Humanities; *Professor*, Department of History and Philosophy; History; Borderlands, Chicano, Mexico, Texas; Ph.D., Texas Tech University, 1981.

Rodriguez, Ana Maria, *Assistant Vice President of Undergraduate Studies and Associate Professor*, Department of Educational Psychology; Guidance and Counseling; Ed.D., University of Houston, 1976.

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Ryman, Jeannean, *Lecturer*, Department of Health and Kinesiology; Physical Education; MEd, Pan American University, 1980.

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Schmidt, Marcello, *Lecturer*, Department of Health and Kinesiology; General; MEd, The University of Texas-Pan American, 1998.

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Smith, Brent, *Lecturer*, Music, DA, University of Northern Colorado, 2000.

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Smolensky, Marcus, *Assistant Professor*, Department of Music; Strings; DMA, Rutgers, The State University of New Jersey, 1993.

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Solis, Raul H., *Assistant Professor and Field Education Coordinator*, Department of Social Work; Mexican-American Experience, Generalist Social Work, Occupational Social Work, International Social Work, Field Education; MSW, Our Lady of the Lake University, 1974.

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Stanley, Jack R., *Professor*, Department of Communication; Journalism, Theatre/TV/Films, Ph.D., University of Michigan, 1971.

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Sullivan, Pamela, *Assistant Professor*, Department of Nursing; MSN, The University of Texas Health Science Center at Houston, 1991.

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Taylor, Monty B., *Professor*, Department of Mathematics; Commutative Algebra, Multiplicative Lattices; Ph.D., University of Houston, 1988.

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Torres, J. Rene, *Lecturer*, Department of Mathematics; Mathematics Education; MS, Texas A&I University, 1971.

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Tucker, Wallace E., *Professor and Assistant Dean*, College of Arts and Humanities; Department of Music; Low Brass; DMA, North Texas State University, 1987.

Turk, William, *Assistant Professor*, Department of Political Science; Public and Urban Administration; Ph.D., The University of Texas at Arlington, 1997.

Uddin, Muhammed M., *Lecturer*, Department of Mathematics; Statistics; MS, Stephen F. Austin State University, 1994.

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Villarreal, John R., *Professor*, Department of Chemistry and Interim Dean, College of Science and Engineering; Physical Chemistry; Ph.D., Texas A&M University, 1976.

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Whelan, Thomas, *Assistant Professor*, Department of Chemistry; Chemical Oceanography; Ph.D., Texas A&M University, 1971.

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