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General Information

Welcome to the University of Texas at El Paso (UTEP)! This undergraduate catalog contains information about UTEP's success in combining academic and research excellence with innovative programs and services, outstanding faculty, and a university-wide commitment to fostering student success. A nationally recognized university with faculty and staff who are dedicated to your academic success, UTEP offers a broad range of academic programs that encourage you to become involved in the discovery and creation of knowledge. UTEP is a friendly place--relationships are easily formed with fellow students, staff members, and faculty.

More than 73 percent of our student population is Mexican-American. About 50 percent are first generation college students. UTEP is the first-choice institution for most students in our region: 94 percent of freshman students tell us that UTEP was their first or second choice for college. UTEP is also the choice of the region's top students who enroll in public institutions in Texas: 57 percent of El Paso County's Top 10 percent high school graduates who are enrolled in public institutions in Texas enroll at UTEP.

UTEP's achievements extend far beyond the University's traditional strengths in science and engineering. UTEP has received national acclaim for innovative programs in business, fine arts, education, the humanities, health sciences, and nursing. The Carnegie Foundation ranks UTEP in the Doctoral/Research University-Intensive category, placing UTEP among the top 7 percent of all colleges and universities in the United States.

The following pages of this catalog introduce you to our policies, our degrees, majors and minors, and our curricula. As you review them, we hope you know that our commitment to you is to offer you the highest quality education in a supportive community.

OUR HISTORY

Located on the U.S.-Mexico border in the El Paso/Cd. Juárez binational metropolitan area of more than two million people, UTEP is the largest Mexican-American-majority research university in the United States. In this unique multicultural setting, the University offers a rich variety of academic programs and outstanding support services, providing academic excellence for students.

UTEP, the second oldest academic component of The University of Texas System, was established in 1914 as the Texas State School of Mines and Metallurgy to prepare professionals for the mining industry of the southwestern U.S. and Mexico. From its inception, the campus has featured architecture derived from the Himalayan kingdom of Bhutan. UTEP's unique buildings are the only examples of this ancient architecture in the Western Hemisphere. The motif, characterized by thick, sloped outer walls accented with a band of elaborate brickwork, was suggested by Kathleen Worrell, the wife of the college's first dean, after she saw photographs of Bhutanese monasteries in an issue of *National Geographic*. Noted El Paso architect Henry Trost designed the first buildings, and architects have continued the theme through more than 90 years of campus expansion.

The college's curriculum expanded in 1927 with the addition of liberal arts courses. The first Master of Arts degree was established in 1940. The institution was renamed Texas Western College in 1949 and the University of Texas at El Paso in 1967. Since then, enrollment has grown to more than 20,000 students, and the scope of programs has expanded to 81 Bachelor's, 78 Master's, 14 Doctoral degrees and 3 combined degrees (bachelor's/master's or master's/master's) all designed to meet the needs of an increasingly industrialized and more diverse West Texas.

OUR CAMPUS

The 367-acre UTEP campus includes 87 buildings with more than 4 million square feet of space for facilities that support academic excellence. The 125,000 square foot Undergraduate Learning Center features multimedia computer and distance learning technology. The UTEP Library contains more than 1 million resources, the new Collaborative Learning Center with 224 open-access computers, a lobby café, and an extensive art collection. The 362,000 square foot Engineering Sciences Complex houses many research opportunities for students in facilities like the W.M. Keck Center for 3D Innovation with \$4 million of equipment, including 17 rapid prototyping machines and facilities for tissue engineering. Nearby, the Biosciences Research Building provides state-of-the-art equipment to address biomedical and environmental problems. Computer laboratories are located across the campus. The Fox Fine Arts galleries, recital halls, and studios present art, theatre, music, and dance programs. Athletic facilities including the Don Haskins Center, the 52,247-seat Sun Bowl Stadium, and the Larry K. Durham Sports Center provide student athletes a range of world class resources including a strength and conditioning center, a sports medicine center, a student-athlete lounge and computer center, locker rooms, coaches' offices, meeting rooms, and a "Hall of Champions."

With its strategic location on the U.S.-Mexico border, UTEP is a nationally recognized leader in creating excellent academic opportunities for the people of the El Paso region and a stimulating context for students from elsewhere to pursue their education. Quality academic programs and a robust research agenda mark UTEP as an innovative force in American higher education for the 21st century.

OUR MISSION

The University of Texas at El Paso is dedicated to the advancement of the El Paso region through education, creative and artistic production, and the generation, interpretation, application and dissemination of knowledge. UTEP embraces its role as an intellectual, cultural and socioeconomic asset to the region, offering programs to meet human resource needs and contribute to the quality of life.

As a public university, UTEP is committed to providing access and opportunity to the people of the El Paso region and the State of Texas. UTEP's mission of ensuring access is coupled with a commitment to excellence reflected in rigorous programs, which prepare students to make significant contributions to their professions, their communities and the world.

As a research/doctoral institution, UTEP fosters a climate of scholarly inquiry, with a special focus on applying innovative interdisciplinary approaches to explore and address major issues that confront the U.S.-Mexico border region.

OUR VISION

The University of Texas at El Paso will serve as a gateway to an improved quality of life for people of the El Paso region, which includes far west Texas, northern Mexico and southern New Mexico.

UTEP will offer a broad range of undergraduate, professional and doctoral programs that support the workforce needs of the region and the state, and will provide lifelong educational opportunities.

UTEP will be recognized as the preeminent institution fostering the widest range of participation and, at the same time, enabling the success of students, especially from socioeconomic groups that have been traditionally excluded from higher education.

UTEP graduates will be aggressively recruited by employers and the most selective graduate and professional schools in the country.

UTEP graduates will be prepared to engage in civic affairs and make meaningful contributions to society.

The University will be nationally and internationally recognized for its exemplary accomplishments in developing and applying knowledge about emergent issues.

Building on the core disciplines, the University will use innovative and multidisciplinary approaches and capitalize on its U.S.-Mexico border context and resources to address major issues that confront the region

UTEP's centers of excellence will be at the forefront of addressing emergent national problems in areas such as homeland security, national defense, Hispanic health and Hispanic education

The El Paso Collaborative for Academic Excellence will be recognized as the preeminent model for improving academic achievement in K-16 students by engaging the educational community, civic organizations, local leaders, philanthropic agencies and researchers.

The University will be recognized for integrating research which engages students, cultivates intellectual curiosity, and promotes creative thinking into the undergraduate curricula

UTEP will be internationally recognized for its artistic and creative productions that are shaped by the confluence of cultures, values and aesthetics of the U.S.-Mexico border region

UTEP will serve as the economic and social engine for the region

UTEP will be an accessible resource for the region.

UTEP will be an engaged partner in supporting and enhancing the cultural, artistic and athletic activities of the region.

UTEP will integrate public service into teaching, learning and research activities.

OUR STUDENTS

Students who attend UTEP come from a varied mix of social, cultural, and economic backgrounds that closely mirror the population of the El Paso/Ciudad Juárez region. Approximately 73 per cent of UTEP's students are Hispanic, two-thirds work while in college, and over half are first-generation college students. UTEP students typically represent more than 47 states and 74 countries, with about 9 percent coming from Mexico.

ACCREDITATION

The University of Texas at El Paso is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097/ telephone number: 404-679-4500) to award bachelor's, master's, and doctoral degrees. Information on accreditation by separate accrediting bodies for specific programs is presented in the specific college sections of this catalog.



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FINANCIAL INFORMATION

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Tuition and Fees

The University of Texas at El Paso
Summary of Tuition and Fee Charges*
2008-2009

| Name of Charge | Classification | Residency | Amount | Notes |
|-----------------------------|------------------------|--------------|--------------------------------------|---|
| Tuition: | | | | |
| | Undergraduates | Resident | \$151.70/semester credit hour (sch) | Tuition revenue is used to fund general university instructional and operating expenses. |
| | | Non-Resident | \$432.70/sch | |
| Required Fees: | | | | |
| Student Services Fee | All Students | All Students | \$14.75/sch to a maximum of \$177.00 | A compulsory fee to fund student-related services such as intramural activities, student government, disabled student organizations, career services, cheerleaders, student publications, health services, intercollegiate athletics, others. |
| Library Fee | Undergraduate Students | All Students | \$10.25/sch | A fee to purchase library materials, to replace maintain and acquire new equipment, and to provide technical support for personal computers and terminals. |
| Energy Fee | Undergraduate Students | All Students | 2.50/SCH | Fee for supporting utility expenses |
| Student Union Fee | All Students | All Students | \$30.00/semester | Fee for the finance, construction, operation, and maintenance of a student union building and its programs. |
| International Education Fee | All Students | All Students | \$4.00/semester | For funding an international education financial aid fund for University students. |
| Recreation Fee | All Students | All Students | \$20.00/semester | Fee for financing, constructing, maintaining, and operating new and existing |

| | | | | |
|---------------------------|--|--------------|--------------------------------------|---|
| | | | | recreational facilities and programs. |
| Registration Fee | All Students | All Students | \$5.00/semester | To defray the costs associated with technology services for telephone registration. |
| Technology Fee | All Students | All Students | \$16.50/sch to a maximum of \$247.50 | Fee to provide for development of campus computers and network facilities for students. |
| Health Center Fee | All Students | All Students | \$12.00/semester | Fee to provide support and medical services to the student population. |
| Incidental Fees: | | | | |
| Variety (See below) | All Students (depending on services used) | All Students | Variable | To defray the cost of providing specific services such as late registration, library fines, add/drop fees, bad check charges, application processing fees, and other services as approved by the governing board. |
| Laboratory Fees: | | | | |
| Variety (See below) | All Students (depending on courses taken) | All Students | Variable | Mandatory charges for certain laboratory courses; may not be less than \$2/semester nor more than \$30/semester and must not exceed the cost of actual materials and supplies used by a student. |
| Course Fees: | | | | |
| Variety (See below) | All Students (depending on courses taken) | All Students | \$10-\$50 | Charges in addition to regular tuition for certain course-related materials and/or for individual instruction. |
| Supplemental Fees: | | | | |
| Variety (See below) | Students needing specific services | All Students | Variable | To defray the costs of providing certain services to students. |

* Tuition and fees are subject to change due to legislative and/or institution action and become effective when enacted.

** Non-resident/international students will be assessed the actual cost of education per semester hour as determined by the Texas Higher Education Coordinating Board.

THE UNIVERSITY OF TEXAS AT EL PASO
Estimated Tuition and Fee Charges for a Semester
2008-2009 Academic Year

| Name of Charge | Under-graduate in Education, Liberal Arts or Science | Under-graduate in Engineering | Under-graduate in Business | Under-graduate in Nursing |
|--|--|-------------------------------|----------------------------|---------------------------|
| | 12 SCH | 12 SCH | 12 SCH | 12 SCH |
| Resident Tuition ¹ | 1,820.40 | 1,820.40 | 1820.4 | 1820.4 |
| Add: Required Fees² | | | | |
| Student Services Fee | 177.00 | 177.00 | 177.00 | 177.00 |
| Library Fee | 123.00 | 123.00 | 123.00 | 123.00 |
| Student Union Fee | 30.00 | 30.00 | 30.00 | 30.00 |
| Registration Fee | 5.00 | 5.00 | 5.00 | 5.00 |
| Energy Fee | 30.00 | 30.00 | 30.00 | 30.00 |
| International Education Fee | 4.00 | 4.00 | 4.00 | 4.00 |
| Recreational Fee | 20.00 | 20.00 | 20.00 | 20.00 |
| Technology Fee | 198.00 | 198.00 | 198.00 | 198.00 |
| Health Center Fee | 12.00 | 12.00 | 12.00 | 12.00 |
| Major Fee | 0.00 | 60.00 | 25.00 | 107.00 |
| Subtotal-Required Fees | 2,419.40 | 2,479.40 | 2444.40 | 2526.40 |
| Add: Average for college and course related laboratory, incidental, and supplemental fees, and/or optional student services fees ³ | 75.00 | 75.00 | 75.00 | 75.00 |
| Total Charges: Tuition plus subtotal-required fees plus averages for college and course related fees and/or optional | 2,494.40 | 2,554.40 | | |

| | | | | |
|--|--------|--------|---------|---------|
| student services fees | | | 2519.40 | 2601.40 |
| AVERAGE COST PER SEMESTER CREDIT HOUR | 207.87 | 212.87 | 209.95 | 216.78 |

¹ Resident undergraduate tuition is \$151.70/semester credit hours (SCH); non-residents undergraduate tuition is \$432.70/SCH.

² Required fees, those charged to all students, may be based on semester credit hours or may be per semester. Descriptions of these fees may be found on this page.

³ Averages are given for course-related, laboratory, incidental, and voluntary fees since changes vary according to courses and services chosen. Actual fees are published on the following pages and in the *Class Schedules*.

Note: Changes in tuition and fee charges may occur after the information is first published; updated information may be obtained from the Student Business Services Office at (915) 747-5116.

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

Tuition and Fees Increase

Tuition and fees provided in this Catalog represent the figures at the time of publication. They are subject to change by regental or legislative action and become effective on the date enacted. The Texas Legislature does not set a specific amount for any particular student fee. The student fees assessed as listed above are authorized by state statute; however, the specific fee amounts and the determination to increase fees are made by UTEP administration and The University of Texas System Board of Regents. Policies governing payment or refund of tuition, fees and other charges are approved by the Board of Regents of The University of Texas System and comply with applicable state statutes.

TUITION AND REQUIRED FEES 2008-2009

| Hrs | Resident UG | Non-Resident UG | International UG |
|-----|-------------|-----------------|------------------|
| 1 | 266.70 | 547.70 | 572.70 |
| 2 | 462.40 | 1,024.40 | 1,049.40 |
| 3 | 658.10 | 1,501.10 | 1,526.10 |
| 4 | 853.80 | 1,977.80 | 2,002.80 |
| 5 | 1,049.50 | 2,454.50 | 2,479.50 |
| 6 | 1,245.20 | 2,931.20 | 2,956.20 |
| 7 | 1,440.90 | 3,407.90 | 3,432.90 |
| 8 | 1,636.60 | 3,884.60 | 3,909.60 |
| 9 | 1,832.30 | 4,361.30 | 4,386.30 |
| 10 | 2,028.00 | 4,838.00 | 4,863.00 |
| 11 | 2,223.70 | 5,314.70 | 5,339.70 |
| 12 | 2,419.40 | 5,791.40 | 5,816.40 |
| 13 | 2,600.35 | 6,253.35 | 6,278.35 |
| 14 | 2,781.30 | 6,715.30 | 6,740.30 |
| 15 | 2,962.25 | 7,177.25 | 7,202.25 |
| 16 | 3,126.70 | 7,622.70 | 7,647.70 |
| 17 | 3,291.15 | 8,068.15 | 8,093.15 |
| 18 | 3,455.60 | 8,513.60 | 8,538.60 |
| 19 | 3,620.05 | 8,959.05 | 8,984.05 |
| 20 | 3,784.50 | 9,404.50 | 9,429.50 |
| 21 | 3,948.95 | 9,849.95 | 9,874.95 |

* This table of Tuition and Required Fees does not include incidental fees, course-related fees, or individual major fees. Please refer to other sections in this catalog.

**Tuition and fees are subject to change due to legislative and/or institution action and become effective when enacted.

In addition to the tuition and fees quoted above, the following must be added as appropriate:

SUPPLEMENTAL FEES

New Student

Student ID Fee (Miner Gold Card) - \$6.00 one time issuance fee

Student ID Replacement Fee - \$20.00

Student General Property Deposit - \$10.00 per student (one time deposit) fee assessed at the time of the student's initial registration at the University. This fee is refundable to the student at the end of his or her University enrollment less any loss, damage, or breakage caused by the student. A property deposit which remains without call for refund for a period of four years from the date of last attendance at the University will be forfeited and will become the property of the Student General Property Deposit Endowment Fund. Such funds will be invested and the income will be used for scholarship purposes.

New Undergraduate Student (one time fee):

New Entering Undergraduate Resident Student - \$180.00

New Entering Undergraduate Non-Resident Student - \$180.00

New Entering Undergraduate International Student - \$200.00

New Entering Undergraduate Transfer Student - \$150.00

Certain Declared Majors

Clinical Laboratory Science Major Fee - \$180.00 per semester with a declared major in clinical laboratory science.

College of Engineering Major Fee - \$60.00 per semester with a declared major within the College of Engineering.

Nursing Major Fee - \$107.00 per semester with a declared major in Nursing.

Occupational Therapy Major Fee - \$75.00 per semester with a declared major in Occupational Therapy.

Physical Therapy Major Fee - \$50.00 per semester with a declared major in Physical Therapy

International Student (ONLY):

International Student Services Fee - \$25.00 per student per semester

LABORATORY FEES

| | | |
|------|--|-----------|
| ARTE | 3317 | \$ 15.00 |
| ARTF | 1301, 1303 | \$ 10.00 |
| ARTF | 1302, 1304 | \$ 4.00 |
| ARTF | 3315 | \$ 20.00 |
| ARTG | 2306, 4306, 4316, 4325 | \$ 25.00 |
| ASTR | 1107, 1108 | \$ 5.00 |
| BIOL | 1104 | \$ 6.00 |
| BIOL | 4198, 4326 | \$ 8.00 |
| BIOL | 1103, 1107, 3330, 4195 | \$ 10.00 |
| BIOL | 2111, 2113 | \$ 15.00 |
| BIOL | 4298 | \$ 16.00 |
| BIOL | 3427 | \$ 20.00 |
| BIOL | 2117', 3119, 3414, 4223, 4398 | \$ 30.00 |
| BIOL | 4325 | \$ 150.00 |
| BOT | 2410 | \$ 12.00 |
| BOT | 3437 | \$ 8.00 |
| CERM | 2304, 2314, 3304, 3314, 3324, 4304, 4314, 4324 | \$ 15.00 |
| CHEM | 1105 | \$ 4.00 |
| CHEM | 4176, 4376 | \$ 5.00 |
| CHEM | 4165 | \$ 8.00 |
| CHEM | 1106 | \$ 10.00 |
| CHEM | 3151, 3152 | \$ 12.00 |
| CHEM | 1407 | \$ 15.00 |
| CHEM | 2161 | \$ 18.00 |
| CHEM | 4131 | \$ 25.00 |
| CHEM | 1408, 3110, 3124, 3125, 3221, 3222, 4212 | \$ 30.00 |
| COMM | 2371, 3311, 3313, 4311 | \$ 5.00 |
| COMM | 3333 | \$ 7.00 |
| COMM | 2342 | \$ 10.00 |
| COMM | 2343, 3331 | \$ 15.00 |
| COMM | 3317 | \$ 20.00 |
| DRAW | 2308, 3318 | \$ 8.00 |
| DRAW | 2318 | \$ 20.00 |
| DRAW | 3308 | \$ 15.00 |
| ESCI | 1101, 2101, 2102, 2103 | \$ 20.00 |
| FREN | 2301 | \$ 5.00 |
| GEOG | 1106 | \$ 18.00 |
| GEOL | 2411 | \$ 25.00 |
| GEOL | 3425 | \$ 30.00 |
| GEOL | 1103, 1104, 1311, 1312 | \$ 18.00 |
| GEOL | 3315, 3355, 3420, 3423, 4380 | \$ 20.00 |
| GEOP | 4332, 4334 | \$ 20.00 |
| KIN | 3331, 4310, 4312, 4313, 4330 | \$ 10.00 |
| KIN | 4320 | \$ 12.00 |
| MICR | 3449 | \$ 10.00 |
| MICR | 2440, 3443, 4453 | \$ 30.00 |
| MICR | 3445 | \$ 24.00 |
| MME | 4413 | \$ 25.00 |
| MS | 1113, 1116 | \$ 20.00 |
| MTLS | 2303, 2313, 3303, 3313, 3323, 4303, 4313, 4323 | \$ 30.00 |
| PHYS | 1121, 3243 | \$ 5.00 |
| PHYS | 4371 | \$ 15.00 |
| PNTG | 2301, 2331, 3301, 3331, 3341, 4301, 4331, 4341 | \$ 12.00 |
| PRNT | 4305, 4325, 4335 | \$ 22.00 |
| PRNT | 2305, 2325, 3305, 3325, 3335 | \$ 30.00 |
| PSCI | 2303, 3304 | \$ 15.00 |
| PSYC | 3101 | |
| SCUL | 2302, 2332, 3302, 3332, 3342, 4302, 4332, 4342 | \$ 30.00 |
| ZOOL | 2406, 3464 | \$ 16.00 |
| ZOOL | 3468 | \$ 20.00 |

| | | |
|------|------------------------|----------|
| ZOOL | 4155, 4157, 4476, 4478 | \$ 8.00 |
| ZOOL | 4181 | \$ 30.00 |

COURSE FEES

| | | |
|------|--|----------|
| ANTH | 3347 | \$ 50.00 |
| ANTH | 3647 | \$750.00 |
| ART | 1300, 3300 | \$ 5.00 |
| ART | 3306, 3308, 3309 | \$ 10.00 |
| ARTE | 4347 | \$ 15.00 |
| ARTE | 3337 | \$ 25.00 |
| ARTE | 3307 | \$ 30.00 |
| ARTG | 1306, 2326, 3306, 3317 | \$ 25.00 |
| ARTG | 3326, 4306, 4316, 4336, 4346, 4356, 4366, 4416, 4426 | \$ 35.00 |
| ARTH | 1305, 1306, 2303, 2313, 3303, 3313, 3329, 3353, 3363, 3373, 3383, 4303, 4309, 4319, 4383 | \$ 5.00 |
| ARTS | 3320 | \$ 7.00 |
| ASTR | 1108 | \$ 5.00 |
| CERM | 4304, 4314, 4324 | \$ 10.00 |
| CHEM | 4176 | \$ 10.00 |
| CHEM | 4376 | \$ 20.00 |
| CHIC | 3302, 3303 | \$ 15.00 |
| CIS | 3385, 4320, 4365, 4370, 4375 | \$ 30.00 |
| COMM | 4359 | \$ 15.00 |
| COMM | 4335 | \$ 10.00 |
| DANC | 1371, 2371, 3345, 3346, 3347, 3348, 3371, 4345, 4346, 4371 | \$ 20.00 |
| DRAW | 3318, 3328, 4310, 4318, 4320, 4330 | \$ 10.00 |
| DRAW | 2308, 2318 | \$ 25.00 |
| FREN | 2302 | \$ 5.00 |
| GEOL | 3311 | \$ 20.00 |
| GEOL | 1312 | \$ 18.00 |
| GEOL | 4665 | \$450.00 |
| GERM | 2301, 2302 | \$ 5.00 |
| HSCI | 4301, 4311 | \$ 6.00 |
| HSCI | 2309, 4201 | \$ 10.00 |
| HSCI | 2303 | \$ 17.00 |
| KIN | 1303 | \$ 12.00 |
| KIN | 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3209, 3210, 3211, 3318, 4201, 4319, 4321 | \$ 8.00 |
| KIN | 4222, 4312, 4313 | \$ 9.00 |
| KIN | 3217, 3219, 3221, 3223, 3315 | \$ 10.00 |
| KIN | 4320 | \$ 12.00 |
| KIN | 4309, 4315 | \$ 20.00 |
| KIN | 4334 | \$ 25.00 |
| MGMT | 4300 | \$ 75.00 |
| MTLS | 4303, 4313, 4323 | \$ 10.00 |
| MUSA | 1139, 1162, 1241, 2375, 2376, 3139, 3162, 3241 | \$ 5.00 |
| MUSA | 1137, 1143, 1150, 1151, 1236, 1244, 1250, 1261, 1269, 1270, 1271, 1272, 2253, 2254, 2255, 2256, 2267, 2268, 2271, 2272, 2275, 2276, 2277, 2278, 2279, 3137, 3143, 3150, 3151, 3236, 3244, 3250, 3254, 3261, 3311, 4311 | \$ 20.00 |
| MUSA | 1185, 1195, 1281, 1291 | \$ 35.00 |
| MUSA | 1290, 1295, 1381, 1391, 1491, 3195, 3295, 3391, 3491 | \$ 50.00 |
| MUSL | 1321, 1324, 1327, 3228 | \$ 10.00 |
| MUST | 1111, 1112, 1311, 1313, 1314, 1315, 2111, 2112, 2219, 2313, 2314, 3215, 3218, 3319 | \$ 10.00 |
| MUST | 2316, 3216, 3261, 3262, 3263, 3315, 3316, 3317 | \$ 20.00 |
| OT | 4640, 4642, 4644 | \$180.00 |
| PE | 1101, 1104, 1116, 1122, 1125, 1151, 1152, 1157, 1170, 1173, 1186, 1188 | \$ 8.00 |
| PE | 1128, 1129 | \$ 14.00 |
| PE | 1164, 1178, 1180, 1182, 1184, 1191, 1194 | \$ 12.00 |
| PHYS | 1121, 1403, 1404, 3243 | \$ 5.00 |
| PNTG | 4331, 4341 | \$ 10.00 |
| PORT | 2301, 2302 | \$ 5.00 |
| PRNT | 4305, 4325, 4335 | \$ 10.00 |
| PSYC | 4352, 4353 | \$ 20.00 |
| RUSS | 2301, 2302 | \$ 5.00 |
| SCUL | 4302, 4332, 4342 | \$ 10.00 |
| SPAN | 2301, 2302, 2303, 2304 | \$ 5.00 |
| SPLP | 4340 | \$ 20.00 |
| THEA | 1303 | \$ 5.00 |
| THEA | 1313, 2321, 3342, 3344, 4332 | \$ 10.00 |
| THEA | 3302, 3303, 3390, 3391, 3393, 3394, 3395 | \$ 15.00 |
| THEA | 2304 | \$ 20.00 |
| THEA | 1390, 2322, 4390 | \$ 25.00 |
| THEA | 2301, 3314, 3341 | \$ 30.00 |

FIELD TRIP FEES

| | | |
|------|------------|----------|
| GEOL | 4375, 4376 | \$450.00 |
|------|------------|----------|

INCIDENTAL FEES

ADD/DROP FEE - A fee of \$5.00 is assessed per transaction each time a change is made to the initial registration.

AUDIT FEE - A fee of \$10.00 per audited course will be assessed to a student who is currently enrolled at the University. For a person who is not enrolled at the University, a fee of 30.00 per course will be assessed.

CATALOG FEE - A fee of \$3.00 will be assessed to students who request a copy of the University Catalog and pick-up the Catalog in person. A fee of \$4.50 will be assessed to students who request that a University Catalog be mailed.

CERTIFICATION DEFICIENCY PLAN PREPARATION FEE - A fee of \$20.00 is assessed to those pursuing teacher certification to defray administrative costs of processing certification deficiency plans.

CLINICAL LAB SCIENCE MAJOR FEE – A fee of \$180.00 per semester will be assessed.

CLINICAL TRACKING & EVALUATION FEE – A fee of \$50.00 will be assessed to defray costs.

DIPLOMA REPLACEMENT FEE - Diplomas are replaced at student's request, if the student has lost the diploma or if the student's name has changed. A fee of \$30.00 will be assessed to a student requesting a replacement after one year. A fee of \$10.00 is requested within one year of order.

DISSERTATION FEE - A fee of \$55.00 will be assessed to defray costs of microfilming and mailing graduate dissertations.

DISTANCE EDUCATION FEE - A fee of \$25.00 per semester credit hour will be assessed to defray costs associated with providing distance learning facilities and support for students enrolling in distance learning classes or other off-campus course(s).

EMERGENCY LOAN PROCESSING FEE - A fee of \$15.00 will be assessed to defray administrative costs incurred in processing and collecting emergency loan payments.

EQUIPMENT SUPPORT FOR ELECTRICAL AND COMPUTER ENGINEERING - A fee of \$25.00 per semester will be assessed to support the costs of open laboratory operations for Electrical and Computer Engineering and Computer Science.

GRADUATION APPLICATION FEE - A fee of \$30.00 is required of candidates for graduation. This fee must be paid each time an application for degree is filed and under no circumstances is subject to refund. Veterans attending the University under an exemption as defined elsewhere in this section are not exempt from payment of this fee.

GRADUATION APPLICATION LATE FEE - A fee of \$15.00 will be assessed to all candidates for graduation who apply for graduation after the regular processing period has been completed. This fee is paid each time an application for degree is filed after the processing period deadline and under no circumstances is subject to refund. Veterans attending the University under an exemption defined elsewhere in this section are not exempt from payment of this fee.

HEALTH INSURANCE FEE - (A mandatory insurance required of international students holding nonimmigrant visas and living in the United States.) The amount assessed will match the University Texas System Student Insurance Plan premium.

IN ABSENTIA GRADUATION FEE - A fee of \$25.00 per semester will be assessed to graduate students who have completed the degree requirements, including submission of the thesis or dissertation, after the semester deadline, but prior to registration for the following semester, and who wish to register for the sole purpose of receiving the degree.

INSTALLMENT TUITION HANDLING FEE - A fee of \$17.00 per academic term will be assessed to cover costs related to providing the installment payment option.

INSTALLMENT TUITION DELINQUENCY FEE - A fee of \$15.00 per delinquent payment will be assessed to defray costs of handling delinquent installment tuition payment.

INSTRUMENT USERS FEE - Music - A fee of \$15.00 per semester will be assessed to students who wish to use musical instruments that are available through the Music Department.

INTERNATIONAL STUDENT APPLICATION FEE - A fee of \$65.00 is assessed to all international students who apply for admission to UTEP. Applications not accompanied by a \$65.00 check or money order, payable in U.S. funds, will not be considered. An individual who has applied, paid the fee, and been accepted but who does not enroll, will be considered for later admission only upon reapplication including payment of this fee again.

INTERNATIONAL STUDENT SERVICE FEE - \$25.00 per long semester and \$12.50 per summer session is assessed to international students to defray the costs of operating the Office of International Programs and supporting the programs that are unique to international students.

IPED SUPPLEMENTAL FEE – A fee not to exceed \$200 per semester credit hour will be assessed to students enrolled in programs of the Institute for Policy and Economic Development related to for-credit training contracts.

LATE ADMISSION APPLICATION FEE - A fee of \$15.00 will be assessed to applicants who submit applications for admission to the University after the scheduled deadlines.

LATE REGISTRATION FEE - Any student who, with proper permission, registers after the appointed days for registering, will be required to pay a special charge of \$20.00 for the late telephone registration process, \$30.00 for in-person late registration, and \$50.00 on or after the first class day. The fee is to defray the costs of the extra services required to complete the late registration process.

LIBRARY FEES - To cover costs associated with handling special items, damaged, and/or overdue books, the library charges the following fees:

LIBRARY FEES - To cover costs associated with handling special items, damaged, and/or overdue books, the library charges the following fees:

Overdue Charges:

Regular Checkouts \$0.25/day (\$25.00 max)

Reserve Items \$1.00/day-\$1.00/hr (\$25.00 max)

Inter-Library Loans \$1.00/request plus any charges from the lending library

Lost Books Cost of book plus \$10.00 processing fee and any fines accrued

Inter-Library Loans All costs charged by suppliers plus \$0.50/request (or \$2.00 per request for rush fee)

Computer Searches 115% of connect time plus any off-line print charges

 Damaged Book Fee \$10.00

 Recall Fee \$1.00/day (\$25.00 max)

Media-Charges Varies depending on type of equipment/service

 Photocopier \$0.05 to \$0.50/copy

 \$0.15/microfilm or fiche

Architectural Drawings and

Blueprint Reprographic Fee \$5.00 per item plus actual costs

Special Collection

Photographic Reproduction

Preservation Fee \$5.00 plus actual costs

Student Fee \$4.00 per semester credit hour/undergraduate

NURSING MAJOR FEE – A fee of \$107.00 per semester will be assessed of all nursing majors.

PROFESSIONAL LIABILITY INSURANCE FEE - A fee of \$10.00-\$80.00 will be assessed to defray costs of insurance for students working in clinical settings in courses in health science, nursing, speech-language pathology, and social work.

REINSTATEMENT FEE - A \$200.00 fee will be assessed to cover costs related to reinstating enrollment after students have been disenrolled for failure to meet University obligations.

REPEATED COURSE FEE – A fee of \$100.00 per credit hour fee will be assessed to all students attempting to complete a course for the third time and thereafter.

RETURNED CHECK FEE - A fee of \$30.00 per check will be assessed to students who issue payment to the University with a check that is returned to the University for insufficient funds.

SCIENCE AND ENGINEERING ENRICHMENT EXPERIENCE - A fee of \$50.00 will be assessed to all incoming freshman and transfer students attending the enrichment experience in the College of Science and College of Engineering to defray costs associated with the enrichment program.

SOCIAL WORK HANDBOOK FEE - A \$2.00 fee will be assessed to students in Social Work for a handbook required by the Council of Social Work Education

SPECIAL EXAMINATION FEE - A fee of \$5.00 per examination is required of persons who wish to take an advanced standing examination, an examination to remove a condition, or an examination to be given at a time other than that for which it is regularly scheduled. Permission of the academic dean must be secured before payment is made.

STUDENT HOUSING DEPOSIT - A \$200.00 deposit will be assessed to all students applying for Residence Hall housing. A Student Housing Deposit will be forfeited under any of the following conditions:

- a. A Housing Deposit remains without call for refund for a period of two (2) years from the date of last attendance at the University;
- b. Any reason of non-payment of rent. The deposit will be applied to the outstanding balance owed to the University and/or applied towards repairs and damages to the unit leased (except for reasonable wear and tear); or
- c. Failure of a student to abide by the Terms and Conditions of Occupancy and/or the University Regulations or Residence Hall Regulations resulting in the University terminating a Residence Hall Agreement.

STUDENT IDENTIFICATION CARD ISSUANCE FEE – A fee of \$6.00 per student will be assessed for the new Miner Gold I.D. card. The fee is a one-time fee that is assessed only on initial issuance.

STUDENT IDENTIFICATION CARD REPLACEMENT FEE - A fee of \$20.00 per card will be assessed students for reissuing a Student I.D. Card due to loss or destruction. Malfunctioning cards or cards that fail to operate will be replaced at no charge.

STUDENT TEACHING FEE - A fee of \$50.00 will be assessed to students approved for Student Teaching during the Fall and Spring semesters.

TEACHER CERTIFICATION CREDENTIALS FEE - A fee of \$10.00 will be assessed to students enrolled in the Teacher Education Program who are having their academic credentials evaluated for compliance with certification requirements set by the Texas Education Agency.

TEST FEE - Students requesting administration of graduate or undergraduate admission testing, professional certification testing, GED testing, or placement and credit testing will be assessed a fee ranging from \$5.00 to \$42.00 per test based on the test subscription costs.

TRANSCRIPT FEE - A fee of \$2.00 will be assessed to students for an unofficial copy of their transcript. A fee of \$5.00 will be assessed for an official copy. A fee of \$7.00 will be assessed for an official copy with immediate processing.

The charges shown in this schedule must be paid by all students registering for credit. The amount includes the following:

UTEP DISTANCE LEARNING TUITION AND FEES*

(Resident Undergraduate Non-UT TeleCampus Video and Audio Distance Learning, CD based courses)

| | |
|------------------------|--|
| Tuition | \$ 151.70 per semester credit hour (sch) |
| Distance Learning Fee | \$ 25.00 sch |
| Energy Fee | \$ 2.50 sch |
| Library Fee | \$ 10.25 sch |
| Technology Fee | \$ 16.50 sch |
| International Fund Fee | \$ 4.00 per semester |
| Registration Fee | \$ 5.00 per semester |

Assessment based on 3 semester credit hours

| | |
|------------------------|------------------|
| Tuition | \$ 455.10 |
| Distance Learning Fee | \$ 75.00 |
| Energy Fee | \$ 7.50 |
| Library Fee | \$ 30.75 |
| Technology Fee | \$ 49.50 |
| International Fund Fee | \$ 4.00 |
| Registration Fee | \$ 5.00 |
| Total | \$ 626.85 |

If students are enrolled only in Distance Learning courses, the following fees are waived under this program:

Activity Fee, Health Center Fee, Recreation Fee, Union Fee

* Distance Learning Tuition and Fees subject to change by action of the Texas Legislation and Texas Higher Education Coordinating Board. Changes will be effective as determined by the governing body.

Tuition for Undergraduate Hours in Excess of 170 or More Credit Hours

Beginning Fall 1999 semester, a resident student who has attempted 170 or more semester credit hours will be charged a higher tuition rate than is charged to other resident students. The higher tuition rate will be the non-resident rate for any credit hours above 169. The higher tuition rate will not be charged to a student enrolled in:

Two or more baccalaureate degree programs at the same time;

2. A double major degree program that requires 130 or more semester credits for completion; or
3. A health professional baccalaureate degree program.

In determining whether the student has previously attempted 170 or more semester credit hours, the following credit hours will not be counted:

1. Semester credit hours earned by the student while the student was classified as a nonresident or foreign student for tuition purposes;
2. Semester credit hours earned by the student 10 or more years before the date the student begins the new degree program under the Academic Fresh Start Program of the Texas Educational Code, § 51.931;
3. Semester credit hours earned by the student before receiving a baccalaureate degree that has previously been awarded to the student;
4. 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;
5. Credit for a remedial education course or another course that does not count toward a degree program at the institution; and
6. Semester credit hours earned by the student at a private institution or an out-of-state institution.

For more information, students should contact the Registrar's Office at (915) 747-5550.

MINER GOLD CARD

The Miner Gold card is the official identification card of the University of Texas at El Paso (University). The Miner Gold card is the property of the University and is non-transferable. All students must carry their Miner Gold card at all times while on University property in order to obtain services.

The Miner Gold card is issued to all students upon enrollment in at least one credit hour. A current photo ID (e.g. license, state ID, passport) must be presented before a Miner Gold card is issued. The Miner Gold card remains active as long as the student is enrolled in courses at UTEP. No article of clothing including a hat or sunglasses will be allowed on the student's head when the photograph is taken.

All first time students will be assessed a one-time, non-refundable \$6.00 fee. Any card rendered unusable, damaged, lost, or stolen will be assessed a \$20.00 fee. A new photo will be taken every time a card is re-issued.

Various debit declining balance plans can be utilized by Miner Gold card holders. Enrollment in these plans is automatic. Participation is optional.

The University reserves the right to modify or change any or all parts of the Miner Gold card at any time. The Miner Gold card must be surrendered to University officials upon request.

For more information: Miner Gold card Office

Academic Services Building room 116

915.747.7334

www.utep.edu/minergold

PARKING FEES

The Board of Regents has approved parking fees as follows for those students desiring to park on the campus:

Classes of Permits and Annual Fees

Sun Bowl Parking Garage

Allows the holder to park in any garage parking space designated for their particular class of permit.

Class PG-1 (Covered) \$250.00 All Students (including Graduates)

\$154.30 If purchased during the Spring Semester

\$ 75.52 If purchased during the Summer Session

Class PG-1 (Deck) \$200.00 All Students (including Graduates)

\$123.44 If purchased during the Spring Semester

\$ 60.42 If purchased during the Summer Session

Silver Parking Lots

Allows the holder to park in any Silver parking area designated for their particular class of permit.

Class S \$175.00 All Students (including Graduates)

\$108.01 If purchased during the Spring Semester

\$ 52.86 If purchased during the Summer Session

Perimeter Parking Lots

Allows the holder to park in any perimeter area designated for their particular class of permit.

Class P (Automobile) \$125.00 All Students (including Graduates)

\$ 77.15 If purchased during the Spring Semester

\$ 37.76 If purchased during the Summer Session

Class P (Motorcycle) \$ 75.00 All Students (including Graduates)

\$ 46.29 If purchased during the Spring Semester

\$ 22.86 If purchased during the Summer Session

Remote Parking Lots

Allows the holder to park in any remote area designated for their particular class of permit.

Class R (Automobile) \$ 75.00 All Students (including Graduates)

Motorcycle \$ 46.29 If purchased during the Spring Semester

\$ 22.86 If purchased during the Summer Session

Other Class Permits

Class H \$125.00 All Students (including Graduates)

(Inner Campus Disabled) \$ 77.15 If purchased during the Spring Semester

\$ 37.76 If purchased during the Summer Session

Class M \$ 50.00 All Miner Village Residents

\$ 30.86 If purchased during the Spring Semester

\$ 15.10 If purchased during the Summer Session

Replacement Decal With remnants of decal (Fee of \$5.00)

Without remnants of decal (Fee is \$20.00)

METHODS OF PAYMENT

Cash, check, Master Card, Visa, American Express, and Discover will be accepted for payment of tuition and fees. The University offers the two following payment methods during long semesters (Fall and Spring) only.

1. Full payment of tuition, mandatory fees and incidental fees at the time of registration.
2. 20% payment of tuition, mandatory and incidental fees at the time of registration, with the remaining balance due in 4 equal installments by the 15th of each month.

Items for which payment CAN be deferred under Method 2 include the following:

Tuition

Mandatory Fees (Library Fee, Student Services Fee, Student Union Fee, Health Center Fee, International Studies Fee, Technology Fee, Recreational Fee)

Incidental Fees (Laboratory Fees, Course-related Fees (such as Equipment Fees), Supplemental Fee for Fine Arts, Major Fees)

Items for which payment MAY NOT be deferred include the following:

Student General Property Deposit

Discretionary Fees (Liability Insurance, Health Insurance)

Optional Fees (such as Parking Decal Fees)

Amounts due for financial holds or from prior periods

Optional Incidental Fees (such as Late Registration, Add/Drop, Installment Tuition Handling Fees, etc.)

The following additional policies will apply to deferral of payments:

1. All student account balances due from prior semesters, including items associated with deferred payment, must be paid in full before a student may begin registration for a subsequent semester.
2. A payment plan selected at the time of registration will be binding and will be applied to any subsequent add/drop activities; however, pre-payment of outstanding balances will be accepted. The University shall assess the Installment Tuition Handling Fee of \$17.00 to those students choosing payment Method 2; this charge is payable at the time of registration. An Installment Tuition Delinquency Fee of \$15.00 will be assessed at the end of the sixth and eleventh week of classes if the payment due for that period is not paid in full.
3. The Office of Student Business Services will send e-mail notifications as appropriate to students paying tuition and fees under Method 2.
4. The student's tuition and fees assessment will be based upon the courses for which a student is enrolled on the official census date-12th class day in a long semester. No reduction in amounts due will be made after this date, except for students who officially withdraw up to the end of the refund period as indicated in the *Class Schedule*. Further, the student is obligated to pay the assessed amounts whether or not class attendance is subsequently interrupted or terminated.
5. A student who fails to provide full payment of tuition and fees, including any late fees assessed, to the University when the payments are due is subject to one or more of the following:

- a. Bar against registration at the institution;
- b. Withholding of grades, degree, and official transcript; and
- c. All penalties and actions authorized by law.

REFUND OF TUITION AND FEES

Refund policies are established by, and are subject to change by, the Legislature of the State of Texas and are applicable to withdrawals and dropped courses. Refunds of tuition, laboratory fees, general fees, and student services fees will be made under the following conditions.

Withdrawals

Students withdrawing during a long semester will be refunded applicable tuition and fees as follows:

| | | |
|-------------------------------|-----------|--------------|
| Prior to the first class day | 100% | less \$15.00 |
| During first five class days | 80% | |
| During second five class days | 70% | |
| During third five class days | 50% | |
| During fourth five class days | 25% | |
| After fourth five class days | No Refund | |

Students withdrawing during a summer term will be refunded applicable tuition and fees as follows:

| | | |
|--|-----------|--------------|
| Prior to the first class day | 100% | less \$15.00 |
| During the first, second, or third class day | 80% | |
| During the fourth, fifth, or sixth class day | 50% | |
| Seventh day of class and thereafter | No Refund | |

Students withdrawing from a term of more than five weeks but less than ten weeks will be refunded applicable tuition and fees as follows:

| | | |
|--|-----------|--------------|
| Prior to the first class day | 100% | less \$15.00 |
| During the first, second, or third class day | 80% | |
| During the fourth, fifth, or sixth class day | 50% | |
| Seventh day of class and thereafter | No Refund | |

Students withdrawing from a session or term of five weeks or less will be refunded applicable tuition and fees as follows:

| | | |
|--|-----------|--------------|
| Prior to the first class day | 100% | less \$15.00 |
| During the first, second, or third class day | 80% | |
| During the fourth, fifth, or sixth class day | 50% | |
| Seventh day of class and thereafter | No Refund | |

Note: Percentage of refund is based on total tuition, mandatory and incidental fees assessed, not on amount paid. Unless students do a complete withdrawal from school prior to the first official class day, the student is responsible for a percentage of total tuition, mandatory and incidental fees assessed. Students should contact the Student Business Services Office at (915) 747-5116 or (915) 747-5105 to address any questions.

Dropped Courses

Refunds of applicable tuition and fees will be made for courses from which students drop within the first twelve class days of a long session semester or an appropriately shorter period for a summer session term, provided the student remains enrolled for that semester or term. Refund of tuition for dropped courses will be made only if the original payment exceeds the established minimum amount.

Refunds of tuition and fees paid on the student's behalf by a sponsor, donor, or scholarship will be made to the source rather than directly to the student who has withdrawn or dropped courses, if the funds were made available through the University. Students who withdraw or drop courses must, in order to qualify for a refund, surrender all applicable privileges, including identification cards and athletic and cultural entertainment tickets. Refunds provided for above will be granted if applied for by the end of the semester in which the withdrawal or drop was appropriately completed. Refunds for students who owe balances on deferred payment of tuition/fees will be credited to the student's account, reduced by the amount of any unpaid charges and a reasonable administrative fee not to exceed the lesser of 5% of the tuition, fees, room and board, and other charges that were assessed for the enrollment period, or one hundred dollars.

Refunding for Student in Title IV Programs

As an institution participating in programs under Title IV of the Higher Education Act of 1965 as amended ("Act"), The University of Texas at El Paso is required to refund unearned tuition, fees, room and board, and other charges to certain students attending the institution for the first time who have received a grant, a loan, or work assistance under Title IV of the Act, or whose parents have received a loan on their behalf under 20 U.S.C. Section 1087-2. The refund is required if the student does not register for, withdraws from, or otherwise fails to complete the period of enrollment for which the financial assistance was intended. No refund is required if the student withdraws after a point in time that is sixty percent of the period of enrollment for which the charges were assessed. A refund of tuition, fees, room and board, and other charges will be determined for students who withdraw prior to this time. The refund is the larger of the amount provided for in Section 54.006, *Texas Education Code* or a pro rata refund calculated pursuant to Section 484B of the Act. If the student charges were paid by Title IV funds, a portion or all of the refund will be returned to these programs.

| DESCRIPTION | ELIGIBILITY | EXEMPTED CHARGES*** |
|--|---|--|
| **Accredited School Scholarship (permissive), <u>Texas Education Code §54.201</u> | Highest ranking graduate of an accredited Texas high school | Tuition during first two semesters (long session) following graduation |
| Children of Texas veterans, <u>Texas Education Code §54.203</u> | <p>For children of members of the US armed forces who were killed in action, who die or died while in service, are MIA, whose death is documented to be directly caused by illness or injury related to service in the US armed forces or who become totally disabled for purpose of employability according to the Department of Veterans Affairs' disability rating as a result of a service-related injury.</p> <p>For orphans or children of members of the Texas National Guard who after January 1, 1946, were killed while on active duty or become totally disabled for purpose of employability according to the Department of Veterans Affairs' disability rating as a result of a service-related injury.</p> <p>Texas resident and resided in the state at least 12 months immediately preceding date of registration</p> | <p>Tuition</p> <p>Laboratory fees</p> <p>General fee</p> <p>NOT TO EXCEED 150 CREDIT HOURS</p> |
| Texas ex-servicemen, <u>Texas Education Code §54.203</u> | <p>Resided in Texas for 12 months prior to registration</p> <p>A bona fide legal resident of Texas at time entered service</p> <p>Served in armed forces in World War II, Korean Conflict, the Cold War, Vietnam, Grenada era, Lebanon, Panama, Persian Gulf</p> <p>Honorably discharged</p> <p>Not eligible for federal education benefits</p> | <p>Tuition</p> <p>Laboratory fees</p> <p>General fee</p> <p>NOT TO EXCEED 150 CREDIT HOURS</p> |
| Children of disabled/deceased Texas firefighters and law enforcement officers, <u>Texas Education Code §54.204</u> | <p>For children under 21 years of age (or 22 if the student was eligible to participate in special education under Texas Code §29.003) of disabled full-paid or volunteer firefighters, full-paid municipal, county, state peace officers, custodians of the Department of Criminal Justice, or game wardens</p> <p>Disability/death occurred in the line of duty</p> | <p>Tuition</p> <p>Required fees not to exceed 120 undergraduate credit hours or any semester begun after age 26.</p> |
| **Disabled Peace Officers (permissive), <u>Texas Education Code §54.2041</u> | <p>Texas resident who has resided in Texas for 12 months immediately preceding registration</p> <p>Permanently disabled as a result of injury sustained in performance of duties as Texas peace officer</p> <p>Unable to continue duties as peace officer</p> | <p>Tuition</p> <p>Fees excluding class and laboratory fees</p> <p>NOT TO EXCEED 12 SEMESTERS IN UNDERGRADUATE PROGRAM</p> |
| Blind and deaf students, <u>Texas Education Code §54.205</u> | <p>A blind disabled person, or a person whose sense of hearing is nonfunctional</p> <p>Texas resident</p> | <p>Tuition</p> <p>Required fees</p> <p>General property deposit</p> |
| **Good Neighbor Scholarship (permissive), <u>Texas Education Code §54.207</u> | A limited number (as prescribed by the Coordinating Board) of native-born citizens and residents from nations of the Western Hemisphere other than the United States | Tuition |
| Firefighters enrolled in fire science courses, <u>Texas Education Code §54.208</u> | Firefighters enrolled in course offered as a part of fire science curriculum | <p>Tuition</p> <p>Laboratory fees</p> |
| Children of prisoners of war or persons missing in action, <u>Texas Education Code §54.209</u> | <p>Dependent person</p> <p>Under 25 years of age who receives majority of support from parent</p> <p>Parent is a resident of Texas on active duty military and classified by Department of Defense as a Prisoner of War or Missing in Action at time of the student's registration</p> | <p>Tuition</p> <p>Required Fees</p> |
| **Senior citizen (permissive), <u>Texas Education Code §54.210</u> | Individuals 65 years of age or older on space available basis | <p>Tuition</p> <p>NOT TO EXCEED 6 CREDIT HOURS PER SEMESTER</p> |
| | Individuals 65 years of age or older on space available basis may audit | Tuition |

| | | |
|--|--|--|
| Foster Children, <u>Texas Education Code §54.211</u> | <p>For individuals who were in foster care or other residential care under the conservatorship of the Department of Protective and Regulatory Services on or after the day preceding the individual's 18th birthday, the day of the student's 14th birthday if the student was eligible for adoption on or after that day, or the day the student received a high school diploma or equivalent</p> <p>Enrolls not later than the 3rd anniversary of date of discharge from that care or the 21st birthday</p> | Tuition Required fees |
| Adopted Children formerly in Foster or other Residential Care, <u>Texas Education Code § 54.2111</u> | <p>For individuals who were adopted; and</p> <p>Were subject of an adoption assistance agreement under</p> <p><u>Subchapter D, Chapter 162, Family Code</u>, that provided monthly payments and medical assistance benefits and was not limited to providing only for the reimbursement of nonrecurring expenses</p> | Tuition and Fees |
| TANF Students, <u>Texas Education Code §54.212</u> | <p>For students who during the student's last year of public high school in this state, was a dependent child receiving financial assistance under Chapter 31, Human Resources Code, for not less than six months</p> <p>Successfully completed the attendance requirements under Section 25.085</p> <p>Younger than 22 years of age on the date of enrollment</p> <p>Enrolls at the institution as an undergraduate student not later than the second anniversary of the date of graduation from a public high school in this state</p> <p>Has met the entrance examination requirements of the institution before the date of enrollment</p> <p>Texas resident</p> | Tuition Fees NOT TO EXCEED FIRST ACADEMIC YEAR |
| Educational Aides, <u>Texas Education Code §54.214</u> | <p>School employee who worked as an educational aide for at least one year during the 5 years preceding the semester of the exemption</p> <p>Establish financial need</p> <p>Pursuing teacher certification</p> <p>Maintain acceptable GPA</p> <p>Texas Resident</p> | Tuition Fees excluding class and laboratory fees |
| ** Concurrent enrollment-high school/university credit (permissive). <u>Texas Education Code §54.216</u> | Individuals enrolled in a course that provides simultaneously course credit towards (1) high school academic requirements; and (2) a degree offered by the institution. | All or part of tuition and fees |
| **Fully Funded Courses (permissive), <u>Texas Education Code §54.217</u> | Individuals enrolled in courses that are fully funded by federal or other sources | Tuition and fees for particular course |
| Distance/Off-Campus Learning (permissive), <u>Texas Education Code §54.218</u> | Student enrolled only in distance learning courses or other off-campus courses | Fees for activities, services or facilities that the student cannot reasonably be expected to use |
| Prisoners of War, <u>Texas Education Code §54.219</u> | <p>Is a resident of Texas and was a resident of Texas at the time of original entry into the armed forces</p> <p>Was first classified as a POW on or after January 1, 1999</p> <p>Is enrolled for at least 12 semester credit hours</p> | Tuition and Required Fees Student Housing and Food Contract Cost Textbook costs NOT TO EXCEED 120 HOURS |
| Children of Professional Nursing Program Faculty, <u>Texas Education Code §54.221</u> | <p>For children whose parent is a faculty member or teaching assistant in a nursing program in Texas</p> <p>Age is 25 year or younger</p> <p>Texas resident</p> <p>Has not previously received a baccalaureate degree</p> <p>Has not previously received an exemption under this section for 10 semesters or summer sessions</p> <p>Exemption applies only at institution that employs the parent/faculty member</p> | Tuition (Prorated if parent is not full-time) |

| | | |
|---|---|--|
| Nursing Preceptors and their Children, <u>Texas Education Code §54.222</u> | Texas resident Registered nurse Serving under contract as a clinical preceptor OR A child 25 years or younger whose parent meets the criteria above, has not previously received a baccalaureate degree and has not previously received an exemption under this section for 10 semesters or summer sessions | \$500 off tuition per semester |
| Economic Hardship, <u>Texas Education Code §54.503(e)</u> | When payment of fee causes undue economic hardship -- number of exceptions limited to 5 percent of total enrollment | General fee |
| Early High School Graduates, <u>Texas Education Code §56.201-209</u> | Graduated from high school in not more than 41 consecutive months and successfully completed the recommended or advanced high school program under Section 28.025; if the person graduated on or after 9/01/2005; - in not more than 46 consecutive months, with at least 30 college credit hours, and successfully completed the recommended or advanced high school program under Section 28.025, if the person graduated on or after 9/01/2005; or - in not more than 36 consecutive months after successfully completing the requirements for a high school diploma, if the person graduated before 9/01/2005. Attended for the majority of time a Texas public high school Be a US citizen or otherwise lawfully authorized to be present in the US. | If completed the recommended or advanced high school program: - \$2000 for tuition and mandatory fees if graduated from high school on or after 9/01/05 in 36 consecutive months or less (an additional \$1.000 if graduated with at least 15 college credit hours) - \$500 for tuition and mandatory fees if graduated from high school in 37-41 consecutive months on or after 9/01/05 (an additional \$1,000 if graduated with a least 30 college credit hours) - \$1,000 for tuition and mandatory fees if graduated from high school in 42-45 consecutive months on or after 9/01/05 with at least 30 college credit hours If completed the requirements for a high school diploma: - \$1,000 for tuition only if graduate before 9/01/05, and if graduated from high school in not more than 36 consecutive months. |
| Surviving Spouse and minor children of certain police, security or emergency personnel killed in the line of public duty. <u>Texas Government Code, §615.0225</u> | For the surviving spouse or children of certain public peace officers, probation officers, parole officers, jailers, police reservists, fire fighters, and emergency medical personnel. <u>Texas Gov't. Code, §615.003</u> Death occurred in the line of duty as a result of a risk inherent in the duty. Must be enrolled full time. | Tuition and Fees Student Housing & Food Contract costs Textbook costs NOT TO EXCEED BACHELOR'S DEGREE OR 200 HOURS |

* This information is provided in summary form. For more information, students should contact the Admissions Office and/or refer to *Texas Education Code Section 54.201, et seq.*

** Must have Regental approval.

*** Required fees are those required as a condition of enrollment. They do not include room, board, books, transportation, lab fees, or other course specific fees or optional fees. **Last updated May 17, 2006.**

TUITION REBATES FOR CERTAIN BACCALAUREATE RECIPIENTS

The Texas Legislature has authorized a \$1,000 tuition rebate for students who complete baccalaureate degrees with no more than three credits in excess of those required for their degrees. The purpose of the program is to provide a financial incentive for students to prepare for university studies while completing their high school work, avail themselves of academic counseling, make early career decisions, and complete their baccalaureate studies with as few courses outside the degree plan as possible. Minimizing the number of courses taken by a student results in financial savings to students, parents, and the state.

The Texas Education Code, Section §54.0065, authorizes UTEP to provide a tuition rebate to students who meet all of the following conditions:

The Texas Education Code, Section §54.0065, authorizes UTEP to provide a tuition rebate to students who:

- a. Enrolled at UTEP for the first time in the fall semester of 1997 or later;
- b. Have requested a rebate for semester credit hours achieved toward their first baccalaureate degree;

- c. Have been Texas residents, have attempted all course work at a Texas public institution of higher education, and have been entitled to pay resident tuition at all times while pursuing the baccalaureate degree;
- d. If enrolled for the first time in fall 2005 or later, graduate within four calendar years with a four-year degree or within five calendar years with a five-year degree if the degree is in architecture, engineering, or any other program determined by the Board to require more than four years to complete;
- e. 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 were graduated. Hours attempted include transfer credits, course credit earned exclusively by examination (except that, for the purposes of this program, only the number of semester credit hours earned exclusively by examination in excess of nine semester credit hours is treated as hours attempted), courses 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 UTEP to be totally beyond the control of the student shall not be counted; and
- f. Have applied for rebates prior to receiving their baccalaureate degrees.

Teaching Certificates

For purposes of the \$1,000 tuition rebate, students concurrently earning a baccalaureate degree and a Texas teaching certificate, required teacher education courses shall not be counted to the extent that they are over and above the free electives allowed in the baccalaureate degree program.

Outstanding Student Loan

Tuition rebates shall be reduced by the amount of any outstanding student loan, including an emergency loan, owed to or guaranteed by the state, including the Texas Guaranteed Student Loan Corporation.

For more details about the Tuition Rebate Program, eligibility, and responsibilities, students should contact the Registration and Records Office, Academic Services Building, Room 123 (915-747-5544). Further information on the Tuition Rebate Program can be found on the following websites:

1. www.thecb.state.tx.us/rules/13/13F.htm
2. www.capitol.state.tx.us

TUITION LIMIT IN CASES OF CONCURRENT ENROLLMENT

When a student registers at more than one public institution of higher education at the same time, tuition charges shall be determined in the following manner:

1. The student shall pay the full tuition charge to the first institution at which he is registered; and in any event he shall pay an amount at least equal to the minimum tuition specified in this code.
2. If the minimum tuition specified in this code for the first institution at which the student is registered is equal to or greater than the minimum tuition specified in this code for the second institution at which the student is registered concurrently, the student shall not be required to pay the specified minimum tuition charge to the second institution in addition to the tuition charge paid to the first institution, but shall pay only the hourly rates, as provided in this code, to the second institution.
3. If the minimum tuition specified in this code for the first institution at which the student is registered is less than the specified minimum tuition charge at the second institution (that is, if the second institution has a higher minimum tuition charge specified in this code), then the student shall first register at the institution having the lower minimum tuition and shall pay to the second institution only the amount equal to the difference between his total tuition charge at the second institution and his total tuition charge at the first institution, but in no case shall the student pay to the second institution less than the hourly rates as provided in this code.
4. If a student is considered to be a Texas resident and therefore qualified to pay Texas resident tuition rates by one institution at which he is registered, that student shall be considered a Texas resident at each of the institutions at which he is concurrently registered for the purposes of determining the proper tuition charges. Nothing in this subsection shall be so construed as to allow a nonresident to pay resident tuition except at institutions covered by Section 54.060 of this code.

GENERAL DEBTS OF STUDENTS OR ORGANIZATIONS

The University is not responsible for any debts contracted by individual students or by student organizations. The University will not assume the role of collection agency for any organization, firm, or individual to which students may owe money, nor will the University adjudicate disputes between students and creditors over the existence or amounts of debts.

DEBTS OWED TO THE UNIVERSITY

In the event of non-payment of debts owed to the University, one or more of the

following actions may be taken by the University:

Bar against registration

Withhold the student's grades and official transcripts

Withhold a degree to which the student might otherwise be entitled

Delinquent accounts will be referred to a Collection Agency and Credit Bureau

Other penalties and actions authorized by law

RETURNED CHECKS

A student who pays the University a check, draft, or money order for services or goods which is not subsequently honored by payor's bank and the fault is not that of the bank, and who does not pay the University the amount due within ten class days after the receipt of written notice that the bank has refused payment, may be subject to disciplinary action. A student who pays tuition and fees with a check, draft, or money order which is not subsequently honored by payor's bank, the fault not being that of the bank, may be withdrawn from the University for non-payment of tuition and fees if the student fails to pay the University the check amount due plus a \$30.00 returned check fee within ten class days after receiving written notice, student's check will be referred to the County Attorney for collection. All check writers whose check is returned will be assessed a \$30.00 fee for each check not honored by payor's bank. This assessment is subject to change without prior notice.



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On-Campus Housing Expenses

Department of Residence Life

Mner Village

2401 North Oregon Street

El Paso, TX 79902

(915) 747-5352

housing@utep.edu

UTEP offers some of the finest and most affordable on-campus housing facilities available. Opened in Fall of 2001, Mner Village provides a state of the art living environment designed to help students succeed academically. Located a brief 5 minute walk from the UTEP Library, most academic buildings and the Sun Bowl Stadium, Mner Village offers many opportunities for students to get involved on-campus.

Students may choose from four different styles of apartments: efficiencies for one or two students or two bedroom and four bedroom units. Each bedroom is a private room and all apartments feature high speed internet, cable television connections and private telephone lines. They are fully furnished (Living room: couch, chair, coffee table, end table, kitchen table and chairs. Bedroom: bed, dresser, desk and desk chair).

One low monthly payment includes all utilities (electricity, refrigerated air, gas, water, sewer and trash removal), high speed internet, basic cable television and a parking permit.

| | |
|-------------------------------|-----------|
| 2 Person Efficiency (monthly) | \$ 355.00 |
| 1 Person Efficiency (monthly) | \$ 510.00 |
| 2 Bedroom (monthly) | \$ 485.00 |
| 4 Bedroom (monthly) | \$ 460.00 |

To reserve a space, students must submit a Mner Village application and a \$200 deposit. A \$30, once a year telephone maintenance fee is required upon check-in. Variable lease options are available which enable students to live at Mner Village during the academic year only or on a year round basis if they choose.

For information on current rates or to take a tour please call or visit.



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Residency for Tuition Purposes

The Office of Admissions and Recruitment is responsible for determining residency status of students for tuition purposes. The Office is guided by the Texas Education Code, the Rules and Regulations for Determining Residence Status of the Texas Higher Education Coordinating Board, and University regulations. Under the State statutes and regulations, a student or prospective student is classified as a resident of Texas, non-resident, or foreign student.

A resident is an individual who is either a U.S. citizen, national, permanent resident alien, or an alien who has been permitted by Congress to adopt the U.S. as his or her domicile while in the United States and who has otherwise met the State requirements for establishing residency for tuition purposes.

A non-resident is a citizen, national, or permanent resident of the U.S. or an alien who has been permitted by Congress to adopt the U.S. as his or her domicile while in this country and who has not met the State's requirement for establishing residency for tuition purposes.

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/her domicile.

While these State requirements for establishing residency are complex and should be referred to in each particular circumstance, they generally require that an independent individual (18 years of age or older) establish a domicile in Texas and reside in the State for a period of 12 months prior to the census date of the academic term in which the person is enrolled. For minors and dependents, the parents or court-

appointed legal guardian must have established a domicile and meet the residency requirements. The minor or dependent must be eligible to be claimed by the parent or court-appointed legal guardian on their federal income tax.

An individual may also be classified as a Texas resident if the individual (1) graduated from a public or private high school or received the equivalent of a high school diploma in Texas; and (2) resided in Texas for at least three years as of the date the person graduated from high school or received the equivalent of a high school diploma; and (3) continuously resided in Texas for one year prior to the census date of the academic term in which the person is enrolled. An individual is classified as a Texas resident until the individual establishes a residence outside of the state of Texas.

The following visa holders are eligible to establish a domicile in the United States and have the same privilege of qualifying for Texas residency as U.S. citizens: A-1, A-2, A-3, E-1, E-2, G-1, G-2, G-3, G-4, G-5, H-1B, H-4, dependents of H-1B, I, K-1, K-2, K-3, K-4, L1a, L1b, L-2, NATO 1-7, O-1, O-2, O-3; dependents of O-1, R-1, R-2, V, OP-1, I-551, or I-688/A/B visas that have not expired. In order for these cardholders to be eligible for resident tuition, residency must be established.

An individual who is classified as a non-resident or foreign student may qualify, under certain exceptions, for resident tuition rates and other charges while continuing to be classified as a non-resident or a foreign student.

Military

Certain military personnel, spouse and dependent children, are eligible to pay resident tuition rates as provided through Texas Education Code Section 54.058 (b)-(c). These provisions provide for nonresident members of the U.S. Armed Forces, members of Texas units of the Army or Air National Guard, or Commissioned Officers of the Public Health Service who are assigned to duty in Texas to pay the resident tuition rate for themselves, their spouses and dependent children. To qualify, the student must submit a statement once a year from an authorized officer in the services, certifying that he or she (or a parent or court-appointed legal guardian) will be assigned to duty in Texas at the time of enrollment and is not a member of the National Guard or Reserves who will be in Texas only to attend training with Texas units.

In addition, Texas Education Code Section 54.058 (d) also provides resident tuition rates for a spouse or dependent child of a member of the Armed Forces of the United States, who is not assigned to duty in Texas but who has previously resided in Texas for a 6 month period if the member has provided at least one year preceding the first day of the term or semester a document with the applicable military service that is in effect on the first day of the semester. The document must indicate the member's permanent residence address in Texas and designates Texas as the member's place of legal residence for the purpose of income tax purposes. In addition, the member provides documentation that he or she has been registered to vote in Texas for the entire year preceding the first day of the semester and satisfies at least one of the following requirements: 1) has owned real property in Texas for the entire year preceding the first day of the semester and 2) has had an automobile registered in Texas for the entire year preceding the first day of the semester or at least one year preceding the first day of the semester executed a will that has not been revoked or superseded indicating that the member is a resident of Texas and deposited the will with the county clerk of the county of the member's residence under Section 71, Texas Probate Code.

Other Exceptions

Waivers of non-resident tuition for non-residents and foreign students are available for

Participants in the Academic Common Market

Residents of the eight New Mexico counties that border on Texas

Recipients of competitive University scholarships of \$1,000 or more

Students whose families transferred to Texas as part of the State's plan for economic development

U.S. Foreign Service Officers assigned to posts in Mexico

Mexican citizens with demonstrated financial need

Military stationed in Texas and their dependents

NATO forces stationed in Texas and their dependents

Teaching and research assistants and their dependents

Higher education teachers and professors and their dependents

Registered nurses enrolled in postgraduate nursing degree programs

STUDENT RESPONSIBILITIES

Reclassification as a Non-Resident

Persons who have been classified as residents of Texas will be reclassified as non-resident students whenever they report, or there is found to exist, circumstances indicating a change in legal residence to another state. If students who have been classified as residents of Texas are found to have been erroneously classified as a result of an omission or falsification will be reclassified as non-residents and will be required to pay the difference between resident and non-resident fees for the semesters for which they were erroneously classified.

Reclassification as a Resident

Persons classified as non-residents upon first enrollment may request reclassification. In order to have residence status reconsidered, students must complete the Core Residency Questions and submit it with the appropriate documentation regarding residency to the Office of Admissions and Recruitment prior to the first day of class of the semester for which the change is sought. After the form and documentation are reviewed, students are notified in writing of the residence decision.

If students have been erroneously classified as non-residents and subsequently prove to the satisfaction of the University's residency official that they should have been classified as resident students, they will be reclassified as residents of Texas and will be entitled to a refund of the difference between the resident and non-resident fees for the semesters in which they were erroneously classified.

All students are expected to pay the tuition assessed on or before the payment date for each semester as established by the University. All residence questionnaires and forms verifying non-resident tuition exemption status must be submitted prior to the first day of class of the term for which the change is sought. To prevent any delay in enrollment, students are encouraged to submit all forms at least two weeks before registration. Students should consult the *Class Schedule* for specific information concerning the submission of non-resident exemption forms.

Non-Compliance with Institutional Rules and Regulations

If students have obtained residency classification by virtue of deliberate concealment of facts or misrepresentation of facts, they may be required to repay the difference in tuition rates and may be subject to appropriate disciplinary action, in accordance with the rules and regulations of The University of Texas at El Paso. For questions on residency or to update residency status, please contact the Office of Admissions and Recruitment at (915) 747-5890.



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ACADEMIC REGULATIONS

General Academic Information

- Student Responsibilities
- Classification of Students
- Registration
- Student Educational Records

Curriculum and Classroom Policies

- Course Information
- Grades and Grade Point Averages

General Requirements for Undergraduate Degrees

Academic Honors

- University Honors Program
- Other Honors Programs

Student Life Policies and Procedures

- Student Conduct
- Prohibited Conduct
- Illegal Substances Policy
- Disruptive Acts Policy
- Hazing Policy
- Solicitation
- Student Travel Policy
- Compulsory Inspection of Vehicle
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- AIDS, HIV, and Hepatitis B Infection Policy
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- Student Right-to-Know and Campus Security Act
- Student Grievance Procedures
- Equal Educational Opportunity





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General Academic Information

Current regulations are applicable to every student enrolled, regardless of the date of admission. Interpretations or explanations contrary to the regulations stated below are not binding upon the University.

STUDENT RESPONSIBILITIES

Students are responsible for being aware of

1. The current academic regulations and calendar of the University
2. The general and specific degree requirements in their major fields
3. Policies that apply to registration
4. Their academic status, including eligibility to re-enroll. An ineligible student who enrolls will be dropped from all courses.

General academic regulations are contained in this section of the catalog. Registration policies, procedures, and schedules can be found in this section and in the *Class Schedule*. Degree requirements and those specific to a given major are located in the appropriate college and departmental sections. Additional information can be obtained from the academic deans, department chairpersons, and departmental academic advisors. Students are bound by the academic regulations in effect at the time of each registration, including those recent changes that appear in the *Class Schedule*.

CLASSIFICATION OF STUDENTS

Classification is based on the total number of UTEP and transfer semester hours earned:

| Classification | Hours |
|----------------|------------------|
| Freshman..... | 0-29 hours |
| Sophomore..... | 30-59 hours |
| Junior..... | 60-89 hours |
| Senior..... | 90 or more hours |

REGISTRATION

Registration is a process every student must successfully complete each semester. Although every effort is made to advise students academically, final responsibility for registration rests with the student. Students can attend only those classes for which they are officially enrolled. A student is not enrolled in a course and will not receive a grade unless the proper tuition and fees are paid by the deadlines published in the *Class Schedule* or unless arrangements have been made for deferral of payment with the Student Business Services Office. After registration, enrollment can be verified by the Registration and Records Office.

Late Registration

Any student who, with proper permission, registers after the scheduled days for regular registration will be required to pay \$20.00 for the late telephone and Web registration process, \$30.00 for in-person late registration, and \$50.00 on or after the first day of class. A new student will have the late registration fee waived as long as registration is made prior to the first day of class for the term. Late registrants are subject to the same regulations and course requirements as students who enroll on time. Each class missed because of late registration will be counted as an absence, and class or laboratory work missed will be counted as a zero unless the instructor grants permission to make up the work.

Any student who has been withdrawn and has his schedule reinstated after census day will be assessed a \$200 reinstatement fee.

Auditing Courses

Courses may be audited under the following provisions:

1. Students should complete an Audit Registration form for each course to be audited after classes begin and prior to Census Day of the long semester. This form must be signed by the instructor teaching the course and by the department chair and then taken to Student Business Services in the Academic Services Building for payment.
2. No grades will be assigned and no credit will be awarded for audited courses. The extent of class participation is at the discretion of the instructor.
3. Credit by examination for audited courses will not be permitted unless tuition and all appropriate fees are paid before the exam is taken.

4. The following courses cannot be audited: clinical, laboratory (organized laboratory classes), studio activity (such as art, piano, woodwinds, dance classes, etc.), any physical activity class (such as PE or Dance), individual instruction, private lessons, or courses specified in the degree plan. It is the student's responsibility to verify that the course being audited is not within the excluded categories. Audit Registration fees will not be refunded for a class in an excluded category.
5. Audit-only students must purchase a Library community user card and a parking decal to park on UTEP property. Other student benefits such as tickets to events, student health services, access to the Swimming and Fitness Center, or a Miner Gold Card are not available to audit-only students. Existing student IDs will not be activated for any semester in which a student is in an audit-only status.
6. Audit fees:
 - a. \$10.00 per course for students concurrently enrolled at UTEP.
 - b. \$30.00 per course for students not concurrently enrolled at UTEP.
 - c. No charge for students over 65 years of age.
7. Students should not register for courses they plan to audit. Course registration does not guarantee a seat as an auditor. Registering for the course will result in assessment of regular tuition and fees, in addition to the audit fees noted above.

Dropping Courses and Complete Withdrawals

Students may drop individual courses or completely withdraw from the University as described below. Refer to the on-line Academic Calendar at www.utep.edu/calendar or to the *Class Schedule* to identify the dates during which adds, drops, withdrawals, and pass/fail registration changes may occur.

Student-initiated Drops

It is the student's responsibility to officially drop a course that s/he no longer wishes to take. Failure to do so may result in a grade of "F" on the student's academic record. Athletes must receive permission from the Miner Athletic Advising Center before dropping a course. International students with F or J visas must receive permission from the Office of International Programs before dropping a course.

Administrative Drops

During registration periods for upcoming semesters, students will be dropped from registered courses for failure to meet prerequisites or corequisites after final grades have been posted for the current semester and before the beginning of late registration for next semester. A student may petition the department chair of the course in question for a prerequisite or corequisite waiver.

At the discretion of the instructor, a student may be dropped from a course because of excessive absences or lack of effort. Students may also be administratively withdrawn from a course during the semester for other reasons, with the concurrence of the academic dean or department chair. A grade of "W" will be assigned before the course drop deadline and a grade of "F" after the course drop deadline. A grade of "F" received due to disciplinary action imposed by the University overrides a grade of "W" received through a student-initiated or faculty drop. Students will be notified of their drop through their UTEP e-mail account.

Six Course Drop Limit

Under section 51.907 of the Texas Education Code, beginning Fall 2007, all first-year students enrolled for the first time at any Texas public college or university are limited to six course drops during their academic career. This includes student and faculty initiated drops and courses dropped at other Texas public institutions. This policy does not apply to courses dropped prior to census day or to complete withdrawal from all courses for the semester. Students are encouraged to discuss options with their professors and advisors and to make use of campus resources before deciding to drop a course. Once the six-drop limit has been reached, subsequent course drops will be recorded with grades of WF.

First-time, first-year students must meet with their academic advisor (or department chair of their major if they do not have an advisor) before dropping a course. The advisor will determine if the drop will count toward the six-drop limit prior to the course drop deadline. After the course drop deadline, the faculty member will determine if the drop will count toward the six-drop limit.

There are exemptions that may allow a student to drop a course without having it counted toward the six-drop limit, but it is the student's responsibility to demonstrate good cause. Exemptions for good cause may include, but are not limited to:

1. A severe illness or other debilitating condition that affects the student's ability to satisfactorily complete the course;
2. The student's responsibility for the care of a sick, injured, or needy person if provision of that care affects the student's ability to satisfactorily complete the course;
3. The death of a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's death is considered to be a showing of good cause*;
4. Active duty service as a member of the Texas National Guard or armed forces of the United States of either the student or a person who is considered to be a member of the student's family or who is otherwise considered to have a sufficiently close relationship to the student that the person's active military service is considered to be a showing of good cause;
5. A change in the student's work schedule that is beyond the student's control and that affects the student's ability to satisfactorily complete the course;
6. Other good cause as determined by the University in consultation with the advisor; or
7. Other reason as described by the student.

*The Texas Higher Education Coordinating Board has specified "family member" to include spouse, child, grandchild, father, mother, brother, sister, grandmother, grandfather, aunt, uncle, nephew, niece, first cousin, step-parent, step-child, or step-sibling. "Sufficiently close relationship" includes a relative within the third degree of consanguinity plus close friends including, but not limited to, roommates, housemates, classmates, or others identified by the student and approved by the institution. The importance of a relationship is both highly individual and highly subjective.

The Course Drop Form contains the exemption request and should be submitted to the advisor no later than the last day of class for the semester in question. Appeals to the denial of exemption requests may be made to the student's academic dean.

A UTEP drop that counts toward the six course drop limit is noted on the academic transcript by a grade of WC. Transfer work that counts toward the limit is noted by a grade of TWC. The statement "(#) Drops Count Toward the Six Course Drop Limit (Sec. 51.907, Texas Education Code)" appears at the end of the UTEP transcript. This number reflects only UTEP drops.

For further information, contact the Registration and Records Office, 123 Academic Services Building, or call (915) 747-5544.

Complete Withdrawal From All Courses for the Semester

Students who withdraw from all courses for the semester must do so in person through the Registration and Records Office. Students who cannot drop in person may submit a fax with signature or an e-mail using their UTEP e-mail account. Athletes must receive permission from the Miner Athletic Advising Center before dropping all classes. International students with F or J visas must receive permission from the Office of International Programs before dropping all classes.

Students who drop all courses for the semester re-enroll based on their last academic standing as described in the *Standards of Academic Performance* section of this catalog. Students who were enrolled in professional programs such as Social Work, Clinical Laboratory Science, Nursing, Occupational Therapy, Physical Therapy, and Speech Language Pathology should check with their major department to determine their eligibility for re-enrollment in the program.

Complete withdrawal from all courses for a semester does not count toward the six-drop limit for first-time, first-year students who enter Fall 2007 or thereafter. A student who withdraws from all classes for the semester immediately loses access to services and privileges available to enrolled students.

Complete Withdrawal Due to Academic Performance

After final grades have been posted for the current semester, and before late registration begins for the next semester, students whose academic standing makes them ineligible to re-enroll will be withdrawn from all their classes for the next semester. For further details, refer to the *Standards of Academic Performance* section in this catalog.

Complete Withdrawal Due to Medical Reasons

A student who must withdraw completely due to medical reasons must submit a letter to the Student Business Services Office from the attending physician, clinical psychologist, or licensed clinical practitioner on official letterhead with an original signature, stating the date(s) within the semester that the student was under medical care and that the student must withdraw due to the medical condition. This letter must be submitted within the semester (or no later than 90 days after the end of the term for which the withdrawal is being requested). If the student is unable to act on his or her own behalf, a representative may do this for the student.

Complete Withdrawal Due to Medical Conditions of a Family Member

A student who must withdraw completely due to a medical condition of an immediate family member must submit a letter to the Student Business Services Office from the family member's attending physician, clinical psychologist, or licensed clinical practitioner. The letter must be submitted on official letterhead with an original signature, state the date(s) within the semester that the student's immediate family member was under medical care, and confirm that the student must withdraw to attend to the immediate family member's medical condition. This letter must be submitted within the semester (or no later than 90 days after the end of the term for which the withdrawal is being requested). If the student is unable to act on his or her own behalf, a representative may do this for the student. "Immediate family member" may be defined as a husband, wife, parent, sibling, child, legal guardian, or grandparent; other relationships may be considered on a case by case basis.

Complete Withdrawal Due to Death of a Family Member

A student who must withdraw because of the death of an immediate family member must submit an official death certificate to the Student Business Services Office during the semester (or no later than 90 days after the end of the term for which the withdrawal is being requested). "Immediate family member" is defined as a husband, wife, parent, brother, sister, son, daughter, legal guardian, or grandparent. Once documentation has been received, the student will be withdrawn and grades assigned.

Complete Withdrawal Due to Death of Student

Upon the death of a student, the student's parent, spouse, or legal guardian must submit an official death certificate to the Student Business Services Office within the semester (or no later than 90 days after the end of the term) so that the student can be withdrawn from all classes and grades assigned. Information concerning a refund can be found in the **Refund of Tuition and Fees** section of this catalog.

Complete Withdrawal Due to Active Military Service

Students who have to withdraw because they have been called to active military service must provide a copy of their military orders covering the affected semester to the Student Business Services Offices. Grades will be assigned as described below. Military personnel may select one of the withdrawal options below according to the Texas Education Code, Chapter 54, Subchapter A, Sec. 54.006:

1. Receive a refund of the tuition and fees paid for the withdrawn semester (see NOTE below);
2. If eligible, receive grades of Incomplete (I) from instructors, with the notation "Withdrawn – Military" appearing on the academic transcript (see section on *Incomplete or In-progress Work* in this catalog); or
3. Receive an appropriate final grade or credit if the instructor determines that a substantial amount of coursework has been satisfactorily completed and sufficient mastery of the course material has been demonstrated.

Grade Assignment for Drops and Withdrawals

Grades will be assigned as follows when a student drops a course or completely withdraws from the University:

1. If a student drops a course before the official census date of a semester, neither the course nor a grade will appear on the student's academic record.
2. If a student drops from a course after the census date but before the student-initiated course drop deadline listed in the *Class Schedule*, a grade of "W" will be assigned.
3. If the student drops after the student-initiated course drop deadline, instructors will determine a grade of "W" or "F" for each course. A grade of "W" is considered only under exceptional circumstances and must be approved by the instructor and department chair for the course. A student may petition for a grade of "W" in writing with the necessary supporting documentation.

Financial information concerning drops and withdrawals can be found in the **Refund of Tuition and Fees** section of this catalog.

STUDENT EDUCATIONAL RECORDS

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 federal and state laws that provide students with the following rights with respect to their student educational records:

To inspect and review the student's education records

To consent to disclosure of the student's education records to third parties, except to the extent that FERPA authorizes disclosure without consent

To request amendment of the student's education records to ensure that they are not inaccurate or misleading

To be notified of the student's privacy rights under FERPA

To file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA.

The University of Texas System and The University of Texas at El Paso have implemented a student records policy that adheres to these laws.

Annual Notification

The University will notify its students annually of their rights according to FERPA and of the procedures for exercising their rights.

Definitions

A "student" is an individual who is attending or has attended The University of Texas at El Paso. It does not include individuals who have been admitted but have not attended. "Attendance" includes attendance in person, by correspondence, online, and during periods when the student is working on an internship program.

"Education Records" include records directly related to a student that are maintained by the University. Education records do not include:

Records of instructional, administrative, and educational personnel that are in the sole possession of the maker (i.e. file notes of conversations), are used only as a personal memory aid, and are not accessible or revealed to any individual except a temporary substitute

Records of the University campus police

Student medical and counseling records created, maintained, and used only in connection with provision of medical treatment or counseling to the student, that are not disclosed to anyone other than the individuals providing the treatment. (While a student may not inspect his or her medical records, these records may be reviewed by a physician of the student's choice)

Employment records unrelated to the student's status as a student

Alumni records.

"Directory Information" means information in a student's education record that would not generally be considered harmful or an invasion of privacy if disclosed. UTEP designates the following minimum information as directory information: student's name; local and permanent address; e-mail address; telephone number; date and place of birth; field of study; dates of attendance; enrollment status; student classification; degrees, certificates and awards (including scholarships) received; photographs; participation in officially recognized activities and sports; weight and height of members of athletic teams; and the most recent previous educational agency or institution attended.

"University official with a legitimate educational interest" is a person employed by the University in an administrative, supervisory, academic, or support staff position (including law enforcement unit and health staff); a person or company with whom the University has contracted or affiliation (such as an attorney, auditor, collection agent, or clinical facility); a member of Board of Trustees; or a person assisting another University official in performing his or her tasks; who needs to review an education record in order to fulfill his or her professional responsibility.

Disclosure of Education Records

Disclosure without Prior Consent of the Student

The University will not disclose personally identifiable information from a student's education records without prior written consent of the student, except as authorized by FERPA. FERPA's authorizations for release without consent include the following:

Directory Information. Directory information (as defined above) may appear in public documents and may otherwise be disclosed without student consent unless a student submits a written request to the registrar during the first 12 days of class of a long semester, or the first day of the minimester, or the first four class days of a summer session, to withhold such information from disclosure. Requests to withhold directory information will be honored by the University for only the current enrollment period; therefore, a request to withhold Directory Information must be filed each semester or term in the Registration and Records Office.

University Officials. University officials with legitimate educational interests in the student's education records are allowed access to student education records. Inter-institutional disclosures may be made between institutions that administer or participate in joint programs or activities, in accordance with legitimate educational interest criteria. For example, if a student is concurrently enrolled in one component of the University of Texas and in another institution, or in two components of the University, or receives services from one component of the University and from another institution, or from two components of the University (or UT System), information from the student records of that individual may be disclosed by one University component to the other, or by the University component to the other institution, without obtaining the written consent of the student in accordance with legitimate educational interest criteria. This provision includes institutions participating in UT TeleCampus Programs.

Other Institutions. The University may release a student's education records to officials of other educational institutions in which that student seeks or intends to enroll or is enrolled.

Audit or Evaluation of Federal or State Education Programs. Authorized representatives of the Comptroller General of the United States, the Attorney General of the United States, the Secretary of Education, and state and local educational authorities may have access to student records in connection with the audit and evaluation of federal or state supported education programs, or in connection with the enforcement of federal law which relates to such programs.

Financial Aid. The University may release a student's education records to persons or organizations in connection with that student's application for, or receipt of financial aid, but only to the extent necessary for such purposes as determining eligibility, amount, conditions, and enforcement of terms or conditions of such financial aid.

State and Local Officials Pursuant to Statute Concerning Juvenile Justice. The University may release education records to state and local officials that are authorized by statute to access student education records to efficiently serve the student.

Organizations Conducting Studies. The University may release a student's education records to organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in a manner which will not permit the personal identification of students and/or their parents by individuals other than representatives of the organization, and the information will be destroyed when no longer needed for the purposes for which the study was conducted. The term "organizations" includes, but is not limited to, federal, state, and local agencies, and independent organizations.

Accrediting Organizations. The University may release a student's education records to accrediting organizations in order to carry out their accrediting functions.

Parents of Dependents. Parents of a student who is a dependent for federal tax purposes, as defined by Section 152 of the Internal Revenue Code of 1954, may have access to that student's education records without prior consent of the student. Parents may demonstrate the tax dependency of a student only by submitting to the University a copy of their most recently filed federal income tax return. Alternatively, a student may demonstrate tax dependency, and thus allow parental access to the student's records without prior consent of the student, by submitting to the University a signed statement of his or her tax dependency. If a dependent student's parents are divorced, both parents may have access to the student's records, so long as at least one parent claims the student as a dependent.

Judicial Order or Subpoena. Information concerning a student shall be released in response to a judicial order or lawfully issued subpoena. The University will make reasonable efforts to notify the student of an order or subpoena before complying with it. However, the University shall not notify a student of a subpoena if it is from a federal grand jury or is for law enforcement purposes, and it provides that the University shall not disclose to any person the existence or contents of the subpoena or any information furnished in response to the subpoena. Education records may be disclosed to the U. S. Attorney General or his or her designee in response to an *ex parte* order concerning an authorized investigation or prosecution of domestic or international terrorism, without prior notice to the student.

Health and Safety. The University may disclose student information to persons in an emergency in order to protect the health and safety of the student or others in the University community.

Disciplinary Hearing Results

Disclosure to Victims: The University may disclose to an alleged victim of any crime of violence (as that term is defined in Chapter 1, Section 16 of Title 18, United States Code), or a non-forcible sex offense, the final results of any disciplinary proceeding conducted by the University against the alleged perpetrator of such crime or offense, regardless of whether the alleged perpetrator was found responsible for violating the University's rules or policies with respect to such crime or offense.

Disclosure to Third Parties: The University may disclose the final results of any disciplinary proceeding against a student who is an alleged perpetrator of any crime of violence or non-forcible sex offense (as those terms are defined in 34 C.F.R. 99.39), if the student is found responsible on or after October 7, 1998, for violating the University's rules or policies with respect to such crime or offense. Such disclosure shall include only the name of the student, the violation committed, and any sanction imposed by the University on that student.

with respect to such crime or offense. Such disclosure shall include only the name of the student, the violation committed, and any sanction imposed by the University on that student. Such disclosure may include the name of any other student, such as a victim or witness, only with the written consent of that other student.

Alcohol and Drug Violations. The University may disclose to a parent or legal guardian of a student information regarding any violation of any federal, state, or local law, or of any rule or policy of the University, governing the use or possession of alcohol or a controlled substance, regardless of whether that information is contained in the student's education records, if the student is under the age of 21 at the time of disclosure to the parent, and the University determines that the student is responsible for a disciplinary violation with respect to such use or possession.

Disclosure to the Student

The student has the right, on request to the appropriate University official, to review all materials that are in the student's education records, except:

Financial information submitted by the student's parent

Confidential letters and recommendations associated with admissions, employment or job placement, or honors, to which the student has waived rights of inspection and review (the University is not required to permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975, provided those letters were collected under established policies of confidentiality and were used only for the purposes for which they were collected)

Education records containing information about more than one student, in which case the University will permit access only to that part of the record that pertains to the inquiring student.

The Vice President for Business Affairs is the official custodian of UTEP records, and that office maintains a list of those individuals responsible for education records, which are maintained at the campus locations listed below. Requests for access to specific student records should be made in writing to the University official responsible for the particular record. Records covered by FERPA will be made available within forty-five days of the request.

1. Academic Records

Admissions Office: Director

Graduate School: Dean

Registration and Records: Registrar

College, Division, Department, and Faculty Offices

2. Student Services Records

University Counseling Services: Director

Student Activities Center: Director

Student Services: Dean of Students

3. Financial Records

Business Office: Vice President for Business Affairs

Financial Aid Office: Director

Scholarships Office: Director

Students may request copies of their education records and this policy. These copies will be made at the student's expense at rates authorized in the Texas Public Information Act, except that official transcripts will cost \$ 5.00. Official copies of academic transcripts will not be released for students who have a delinquent financial obligation or financial "hold" at the University.

Disclosure with Prior Consent of the Student

With the student's prior consent, the University will release personally identifiable student information in education records or allow access to those records. Such consent must be written, signed and dated, and must specify the records to be disclosed, the party to whom the records are to be disclosed, and the purpose of the disclosure. Research papers and thesis authorized by the student will be made available to interested members of the public.

Record of Disclosures

The University will maintain with the student's education records a record for each disclosure request and each disclosure, except disclosures:

To the student himself or herself

Pursuant to the written consent of the student

To University officials with legitimate educational interests

Pursuant to a law enforcement subpoena and the issuing court or other issuing agency has ordered that the existence or the contents of the subpoena or the information furnished in response to the subpoena not be disclosed or the order is concerning an authorized investigation or prosecution of domestic or international terrorism

Of directory information.

Requests to Amend Records

A student who believes that his or her education records are inaccurate or misleading, or that the records violate his or her privacy rights, may informally discuss amendment of the record with the University office concerned with the particular record. If agreement is reached with respect to the student's request, the appropriate records will be amended. [Note: The substantive judgment of a faculty member about a student's work, expressed in grades and/or evaluations, is not within the purview of this right to seek amendment of education records.] If the record is not amended pursuant to the student's request, the University will inform the student of its decision and of the student's right to request a formal hearing.

The request must be made in writing to the UTEP Vice President for Business Affairs who, within a reasonable period of time after receiving such request, will inform the student of the date, place, and time of the hearing. A student may present evidence relevant to the issues raised and may be assisted or represented at the hearing by one or more persons of the student's choice, including attorneys, at the student's expense. The hearing officer that will adjudicate such challenges will be appointed by the President. The decision of the hearing officer will be final, will be based solely on the evidence presented at the hearing, and will consist of a written statement summarizing the evidence and stating the reasons for the decision, and will be delivered to all parties concerned. If the decision is in favor of the student, the education records will be corrected or amended in accordance with the decision of the hearing officer. If the decision is unsatisfactory to the student, the student may place with the education records a statement commenting on the information in the records or a statement setting forth any reasons for disagreeing with the decisions of the hearing officer, or both. The statement 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 were not in keeping with the provisions of the Act may request in writing, assistance from the President of the institution.

Disclosure for Directory Information to the Texas Higher Education Coordinating Board (the State of Texas Educational Governing Entity)

FERPA allows, with the student's consent, for the Texas Higher Education Coordinating Board to disclose the number of semester credit hours that the student has taken at UTEP to other institutions of higher education for the purpose of confirming those hours for transfer and related issues. Students may have all Directory Information withheld by

UTEP to other institutions of higher education for the purpose of confirming these hours for transfer and related issues. Students may have all Directory information withheld by notifying the Registration and Records Office in writing each semester during the first 12 days of class of a long semester, or the first day of the minimester, or the first four class days of a summer session. Requests to withhold Directory Information will be honored by the University for only the current enrollment period; therefore, a request to withhold Directory Information to THECB must be filed each semester or session in the Registration and Records Office.

Collection of Personal Information

With few exceptions, under Sections 552.021 and 552.023 of the Texas Government Code, students are entitled at their request to receive and review the information UTEP collects about them. Under Section 559.004 of the Texas Government Code, they are entitled to have The University of Texas at El Paso correct information about them that has been collected and is incorrect, in accordance with the procedures set forth in the University of Texas System Business Procedures Memorandum 32. The information that The University of Texas at El Paso 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.

Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

Curriculum and Classroom Policies

COURSE INFORMATION

Texas Common Course Numbering (TCCN) System

The University of Texas at El Paso participates in the Texas Common Course Numbering (TCCN) System, which was developed to facilitate the transfer of general academic courses among Texas colleges and universities. Common courses are those freshman and sophomore level courses taught throughout Texas which correspond with the general description of courses or category of courses included in the *Lower Division Academic Course Guide Manual*. A UTEP course determined to be equivalent to a course listed in the *Guide* has the common course number listed below the UTEP course title in the individual course description of this catalog and a Texas state symbol is to the left of the course prefix and number. Students interested in transferring can refer to the common course number in each college or university catalog to determine course transferability among institutions.

Course Numbering System

Each course offered by The University of Texas at El Paso is identified by a four-digit course number. The first number indicates the level: 0 = developmental, 1 = freshman, 2 = sophomore, 3 = junior, 4 = senior, 5 or 6 = graduate. The second number indicates the semester credit hour value of the course. The last two numbers identify the course within its particular department.

Lower-Division Courses are designated by a 1 or 2 as the first digit of the course number.

Upper-Division/Advanced Courses are designated by a 3 or 4 as the first digit of the course number. The student should refer to the departmental and college requirements for specific conditions, if any, imposed on registration in advanced courses.

Graduate Courses are designated by a 5 or 6 as the first digit of the course number.

Maximum Course Load

A student is permitted to register each term for the maximum number of semester credit hours listed below. Written permission from the academic dean must be obtained to take more than the maximum load. Students must have a grade point average above 2.0 to request permission.

| Term | Maximum Hours |
|-----------------------|---|
| Fall | = 21 |
| Spring (Wintermester) | = 24 (combined terms), or 21 for Spring, or 6 for Wintermester. |
| Summer (Maymester) | = 15 (combined terms), or 9 for Summer, or 6 for Maymester. |

Enrollment Status

| Fall and Spring | Hours Per Semester/Term |
|-----------------------------------|--|
| Full-time | = 12 or more |
| Part-time | = fewer than 12 |
| Maymester and Wintermester | |
| Full-time | = 3 or more |
| Part-time | = fewer than 3 |
| Summer Sessions | |
| Full-time | = 6 or more, or 3 in summer I and 3 in 8-week, or 3 in summer II and 3 in 8-week, or |

3 in summer I and 3 in summer II

Part-time = fewer than 6

Students who are not eligible to enroll without conditions, who are on academic probation or academic suspension/dismissal, who have been readmitted or reinstated from such conditions, or who are in the START Program will have course load conditions imposed by their advisor or dean. Students should see the section entitled Standards of Academic Performance.

Enrollment Verification

For enrollment verification to financial aid, scholarships, loan agencies, insurance companies, etc., the following categories will be followed. Students are encouraged to enroll in the appropriate number of credit hours as required/specified by the agencies. Veteran students are recommended to consult with the campus Veterans Affairs Office.

Fall and Spring: Hours Per Semester/Term

Full-time = 12 or more

3/4 time = 9 - 11

1/2 time = 6 - 8

Less than 1/2 time = fewer than 6

Maymester and Wintermester:

Full time = 3 or more

1/2 time = 2

Less than 1/2 time = 1

Summer Sessions:

Full-time = 6 or more

3 in summer I and 3 in 8-week, or

3 in summer II and 3 in 8-week, or

3 in summer I and 3 in summer II

3/4 time = 4 - 5

1/2 time = 3

Less than 1/2 time = fewer than 3

Students participating in the Career and Professional Development Services Cooperative Education Program and are only enrolled in a CO-OP course will be classified as full-time for the semester/term.

Limits on Undergraduate Course Enrollment

In most instances, a student may enroll in an undergraduate class a maximum of three times; further enrollment requires **PERMISSION OF THE STUDENT'S ACADEMIC DEAN**. A student may enroll more than three times in a variable-topic, studio, performance, workshop, or other course that is identified as "may be repeated for credit." This includes enrollments that result in a grade of "W," "F," "D," or "P." It does not apply to courses taken prior to a student's re-enrolling under "Option 2" as described under the Reinstatement After Extended Absence or Academic Fresh Start portions of this catalog. Individual colleges may have more restrictive policies.

A student may not enroll in a course in which a grade of "C" or higher has been previously earned (except for a variable-topic, studio, performance, workshop, or other course that is identified as "may be repeated for credit"). Moreover, a student may not enroll in a course in which he or she has an unresolved grade of "I".

Courses Taken on a Pass/Fail Basis

Some courses are graded only on a Pass/Fail basis (grade of "S" or "U"). Check with the appropriate academic department for a listing of these courses. These courses may be used to fulfill degree requirements if so specified on the student's degree plan. In addition, an undergraduate student whose cumulative grade point average is 2.0 or higher may take courses on a Pass/Fail basis with the following conditions:

1. A maximum of four courses attempted on a Pass/Fail basis may be used to fulfill degree requirements, as free electives only.
2. Such courses may not be reserved for graduate credit.
3. Not more than two such courses may be taken in a long semester or one in a summer session.
4. Courses taken on a Pass/Fail basis may not be counted toward the minimum residency requirements.
5. To obtain credit for the course, the student must meet the minimum standard and do all assigned work required for the grade of "A," "B," "C," or "D."
6. No course graded Pass/Fail may be used to fulfill any degree requirement in the College of Engineering.
7. Business majors may not take any course offered by the College of Business Administration on a Pass/Fail basis.

To enroll on a Pass/Fail basis in courses that are not normally graded Pass/Fail, a student must:

1. Obtain a Pass/Fail form and approved signature from the academic dean of his/her college.
2. Submit the approved form to the Records Office by the submission deadline listed in the *Class Schedule*.

Election of the Pass/Fail option is irrevocable after the submission deadline. Pass/Fail courses are not included in the grade point average calculation. There is no assurance that Pass/Fail courses will be accepted as transfer credit by another institution.

Reservation of Work by Undergraduates for Graduate Credit

Ordinarily, undergraduates are not eligible to take graduate courses. A student who already has a baccalaureate degree is not eligible to reserve courses for graduate credit, but it is possible for seniors to register in graduate courses in their last semester under the following conditions:

1. The undergraduate must need no more than 12 semester hours (or six semester hours in summer session) of work to complete all requirements for the first baccalaureate degree and must have a grade point average of at least 3.0 in junior and senior-level courses.

2. These 12 hours (or less) must all be completed in the same semester or summer session in which the graduate courses are taken.
3. Total registration for all work must not exceed 15 semester hours (or 9 hours in a summer session).
4. Enrollment in graduate courses must be approved prior to registration by the graduate advisor of the department, the undergraduate dean, and the Dean of the Graduate School.
5. This option is limited to one term.

An undergraduate cannot count credit for graduate courses toward the baccalaureate degree. It will be reserved for credit toward a graduate degree. A form for reserving courses is available in the Graduate School. Approval to reserve work for graduate credit neither constitutes nor implies admission to any graduate program.

Repetition of Courses

Students may repeat courses at UTEP under either of the following conditions:

1. Repetition of UTEP freshman level courses (1XXX): If a grade of "A", "B", "C", "D", or "F" is earned when the course is repeated for the first time, the previously earned grade **is automatically excluded from the GPA calculation**. Both grades earned remain on the academic record and the record will be annotated with the symbol (E-Excluded) next to the first grade. The last grade earned is the official grade for a course.
2. Repetition of UTEP freshman level courses (1XXX) after the first time and repetition of non-freshman level courses (2XXX, 3XXX, 4XXX): All grades earned remain on the academic record and **are included in the GPA calculation**. Exceptional circumstances may be reviewed by the student's academic dean in consultation with the appropriate faculty member. Grade replacement and GPA recalculation may not occur after graduation.

A grade received as a result of disciplinary action is not eligible for grade replacement for GPA recalculation. The record will be annotated with the symbol (D) next to the grade.

Note: Students are cautioned that courses taken at UTEP and repeated at another college or university are not eligible for GPA recalculation, even if it is the first-time repetition of freshman-level courses (1xx). Transfer courses are not calculated in a student's UTEP GPA.

Class Attendance

The student is expected to attend all classes and laboratory sessions. It is the responsibility of the student to inform each instructor of extended absences. When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of "W" before the course drop deadline and with a grade of "F" after the course drop deadline.

Excused Absences for University-Recognized Activities

Students who will be absent while representing the University in officially recognized University activities (sports, band, professional conferences, etc.) must notify the Dean of Students not less than ten days prior to the absence. The Dean of Students will provide the student with a letter of excuse for the professors. It is the student's responsibility to give the letter to the professors prior to the official recognized activity. Students following these procedures will be permitted to make up both assignments and examinations in consultation with faculty.

Absence for Religious Holy Days

"Religious holy day" means a holy day observed by a religion whose places of worship are exempt from property taxation under Section 11.20, *Tax Code*. Section 51.9111 of the *Texas Education Code* related to absences by students for observance of religious holy days states that the institution shall excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. The student must provide written notice to the instructor of each course that he/she will be absent for a religious holy day **not less than 10 days prior to the absence**. If a student and an instructor disagree about the nature of the absence being for the observance of a religious holy day as defined therein, or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the Provost or his or her designee. The student and instructor shall abide by the decision of the Provost or his/her designee.

Military Leave

Section 51.9111, *Texas Education Code*, provides that students be excused from scheduled classes or other required activities if the student is called to and participates in active military service for a reasonably brief period and that the student shall be allowed to complete an assignment or exam within a reasonable time after the absence.

Students called to active military service must provide a copy of their military orders to the instructor of each course.

Further information is available under Complete Withdrawal Due to Active Military Service.

Absence from Examinations

A student absent from a test during the semester is graded zero unless another policy is set by the instructor.

Dead Day

This specific day will be scheduled one day after the last day of classes during the fall and spring semesters. The following policy will be observed:

1. No classes will be held on this day, except classes which meet once a week on that day
2. Make-up exams should be left to the discretion of each individual instructor
3. All student work (i.e., research papers, lab reports, term paper, etc.) should be due prior to this day
4. If a comprehensive final is given, no new material, quizzes, or exams should be given two calendar days prior to Dead Day, and attention should be given to review of semester material. Implementation of this recommendation is to be left to the discretion of the individual instructor.

Final Examinations

Exemption from final examinations may not be given. Final examinations are scheduled to be two hours, forty-five minutes in length and take place during the final examination period. It is the policy of the University not to administer a second final examination in a course. It is also University policy that students shall not have more than two final examinations in a single day. In the unlikely event that the examination schedule results in a student having three final examinations on a single day, the faculty member upon the request of the student shall reschedule the second of that student's three examinations.

Academic Integrity

The University of Texas at El Paso prides itself on its standards of academic excellence. In all matters of intellectual pursuit, UTEP faculty and students must strive to achieve excellence based on the quality of work produced by the individual. In the classroom and in all other academic activities, students are expected to uphold the highest standards of academic integrity. Any form of academic dishonesty is an affront to the pursuit of knowledge and jeopardizes the quality of the degree awarded to all graduates of UTEP. It is imperative, therefore, that the members of this academic community understand the regulations pertaining to academic integrity and that all faculty insist on adherence to these standards.

Any student who commits an act of academic dishonesty is subject to discipline. Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts. Proven violations of the detailed regulations, as printed in the *Handbook of Operating Procedures (HOP)*, and available in the Office of the Dean of Students and on the homepage of the Dean of Students at www.utep.edu/dos, may result in sanctions ranging from disciplinary probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others.

GRADES AND GRADE POINT AVERAGES

| Grade | Meaning | Grade Point Value per Semester Hour |
|-------|---|--|
| A | Excellent | 4 |
| B | Good | 3 |
| C | Average | 2 |
| D | Below Average but Passing | 1 |
| F | Failure | 0 |
| WC | Assigned to a dropped course that will count toward the Six Course Drop Limit | 0 |
| WF | Assigned to a dropped course that exceeds the Six Course Drop Limit | 0 |

Courses in which the above grades were earned are included in the grade point average (GPA), which is calculated as follows: (1) determine grade points by multiplying the number of semester hours each course is worth by the grade point value of the grade received; (2) divide the total number of grade points earned by the total number of semester hours attempted in which the above grades were earned. (Total Grade Points/Total Attempted Hours = GPA)

The following grades are not included in grade point average calculations:

| | |
|-------|---|
| Grade | Meaning |
| I | Incomplete |
| S | Satisfactory, in a Pass/Fail course |
| U | Unsatisfactory, in a Pass/Fail course |
| P | In Progress |
| W | Withdrawal |
| CR | Transfer credit or credit by examination |
| A* | Satisfactory |
| B* | Satisfactory |
| C* | Satisfactory |
| D* | Satisfactory |
| F* | Unsatisfactory |
| S* | Satisfactory |
| U* | Unsatisfactory |
| N | A temporary administrative grading notation often meaning not reported by the faculty or some other administrative problem |
| TWC | Assigned to a dropped undergraduate transfer course taken at another Texas public college or university; counts toward the Six Course Drop Limit. |

Midterm Grades for Freshmen

At mid-semester, all students with fewer than 30 semester hours will receive midterm grades. This midterm grade report is designed to give beginning students an early indication of their academic progress. Midterm grades are not recorded on the student's academic record, computed in the cumulative grade point average, or in the academic standing.

Incomplete or In-Progress Work

Assignment of the grade "I" is made only in exceptional circumstances and requires the instructor to file an outline of the work to be completed and the time span (not to exceed one calendar year) allowable for completion with the academic dean. In no case may repetition of the course be assigned as work to be completed. If the work has not been completed at the end of the specified time, the "I" will be changed to an "F." A student may not enroll in a course in which he/she has an unresolved grade of "I." The grade of "P" (in progress) is limited to specific courses in which re-enrollment is required. This includes all thesis courses (5398-5399, 6320-6321), graduate internships, and certain undergraduate courses.

Grade Changes

All student-initiated grade reviews and grade appeals shall be made no later than one year after the official grade has been released to the student; for a student who has graduated, **the deadline is three months** following the semester in which the degree was awarded.

Any student may request that the faculty member review and re-evaluate a grade previously given. The student may then seek assistance from the department chair or the academic dean in obtaining a grade review.

After a grade review, a formal grade appeal process is available in cases in which a student wishes to appeal a grade assigned by the instructor. The formal appeal shall be officially filed with the Student Welfare and Grievance Committee no later than one year after the official grade has been released to the student; for a student who has graduated, **the filing deadline is three months** following the semester in which the degree was awarded. See Student Life Policies and Procedures section-Student Grievance Procedures in this Catalog for additional information.

Grades may be changed as a result of (1) grade change initiated by the instructor and approved by the appropriate department chair; (2) grade change initiated by the department chair for cases in which the instructor cannot be contacted and there exists clear and convincing evidence for a grade change; (3) grade change due to disciplinary action imposed by the Dean of Students or Hearing Officer for violation of university rules; or (4) action taken by the Student Welfare and Grievance Committee in grade appeal procedures.

Grades determined as a result of actions taken in items (3) or (4) above are final and not subject to change. No other grade change shall occur without the consent of the instructor. The Registrar shall notify the student and the instructor of any change of grade.

College/Major Academic Standing

Selected colleges or majors may also require students to maintain a 2.0 GPA for courses taken within the college or within the major. A student whose college/major GPA falls below a 2.0 after completing a specified minimum number of hours of the designated course work in the college/major will be placed on probation within the college/major. This minimum shall be nine hours unless specified differently on the degree requirements for the college/major.

If the student's college/major GPA remains below a 2.0 after completing nine additional hours of course work in the college/major [or the designated college/major probationary period (students should refer to the individual degree requirements to determine the applicable probationary period)], the student will be placed on suspension from the college/major for a minimum of one semester. A student who is on suspension from a college/major may continue to enroll in the University if the student changes majors and meets the GPA requirements of the new college/major. A change to a new major in the same college will require permission from the dean. A student who wishes to re-enroll in the same major after a suspension must submit a Petition for Reinstatement to the College/Major to the student's academic dean. If the petition is approved, the student will be permitted to re-enroll under academic probation, plus any special conditions which may be imposed by the academic dean. It is recommended that students who are suspended from the college/major receive career counseling through the University Counseling Center.

Students who have been suspended for a period of one semester and have been allowed to re-enroll in that college/major must attain a GPA of 2.0 in the college/major after the completion of nine additional hours of course work in the college/major [or the designated college/major probationary period (student should refer to the individual degree requirements to determine the applicable probationary period)]; failure to do so will result in suspension from the college/major for a minimum of one year. A student who is allowed to re-enroll after this suspension and does not achieve a 2.0 GPA in the college/major [or the designated college/major probationary period (student should refer to the individual degree requirements to determine the applicable probationary period)] will be dismissed from the college/major. A change of major will be required if the student wishes to continue to enroll in the University.

Any appeal from the regulations governing academic performance shall be directed to the dean of the college in which the student is a major, who is empowered to grant relief in unusual cases if the circumstances warrant such action. This policy is in addition to the policies concerning academic standing within the University. Any penalties concerning eligibility to re-enroll arising from the University's academic standing policy shall take precedence over any provisions within this policy.

Standards of Academic Performance

Undergraduate students are expected to maintain a cumulative grade point average (GPA) of at least 2.0 ("C" average) for all work attempted at UTEP, and at least a GPA of 2.0 for all course work required in the major field of study. These are University-wide minimum requirements for the conferral of any bachelor's degree, but higher minimum standards of performance are required in some programs.

When final grades of each term are posted to the student academic record, both term GPA (for the semester or session just ended) and cumulative GPA (for all work attempted at UTEP) are included. In addition, designations appropriate to the student's past academic performance and eligibility to re-enroll at the University are included. These designations are as follows:

Eligible to Re-enroll

A student whose cumulative GPA is 2.0 or higher is eligible to re-enroll.

Academic Probation

A student whose cumulative GPA falls below 2.0 will be placed on academic probation. A student on academic probation must have permission to re-enroll. Students in an entering student program should seek this permission from their entering student advisor. Other students should seek this permission from their academic dean. A student will remain on academic probation as long as the term GPA is at least 2.0 and the cumulative GPA is below 2.0.

Academic Suspension for One Semester

A student on academic probation whose term GPA is below 2.0 will be placed on academic suspension for one semester. A student thus suspended MAY NOT re-enroll at the University until one long semester or full summer session has elapsed.

Academic Suspension for One Year

A student on academic probation who has already been placed on academic suspension for one semester, and whose term GPA is less than 2.0, will be placed on academic suspension for one year. A student thus suspended MAY NOT re-enroll at the University until one full calendar year has elapsed.

Academic Suspension for Two Years

A student who has been placed on academic suspension for one year and whose semester and cumulative GPA is below 2.0 will be placed on academic suspension for two years. A student thus suspended MAY NOT re-enroll at the University until two full calendar years have elapsed.

Re-enrollment Following Academic Suspension

A student wishing to re-enroll after his/her academic suspension period is over must submit a Petition for Reinstatement with the academic dean of the previous major or, if the student is selecting a new major, the dean of the intended new major. If reinstated, the student will be permitted to re-enroll under academic probation, plus any special conditions of the Petition for Reinstatement.

Any appeal from the regulations governing academic performance shall be directed to the dean of the college in which the student is a major, who is empowered to grant relief in unusual cases if the circumstances warrant such action. Any student who attempts to circumvent the academic performance regulations is subject to disciplinary action.

Reinstatement of Students after Extended Absence

At the time of reinstatement to the University after an absence of at least two academic years, a student has the option of:

1. Continuing with the academic record and GPA as they stand, and completing all remaining requirements for graduation; or
2. Beginning anew, with no courses attempted earlier at UTEP counted toward the degree, nor counted in the cumulative GPA calculations. This option may be elected only once.

If Option 1 is chosen, the GPA will be computed according to rules in force at the time of re-entry. If Option 2 is chosen, notation will be made in the student's record indicating that portion of the record which is to be involved in computing requirements for graduation. There is no assurance that courses attempted prior to this option will be accepted as transfer credit by another institution. In either case, all courses taken and grades earned will remain on the official academic record. Pursuit of the degree under either option does not exempt the student from the provisions of the "seven-year rule" (students should refer to the Catalog Requirements section).

If the student was not eligible to re-enroll at the end of the last period of enrollment at the University, submission of a Petition for Reinstatement with the academic dean of either the previous or intended major is required at the time of reinstatement. The petition will specify which of the two options has been chosen.

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General Requirements for Undergraduate Degrees

General academic regulations may be changed at any time. All students, regardless of when originally enrolled, are required to abide by current academic regulations.

RESIDENCE

Work counting toward the degree must be completed in residence at the University as follows:

1. A total of at least 25% of the semester hours (a minimum of 30 semester hours)
2. Twenty-four of the last 30 semester hours
3. Twelve semester hours of advanced courses in the major subject must have been completed not more than three years prior to the date of graduation

CATALOG GRADUATION REQUIREMENTS

In order to graduate, a student must fulfill the specific course and degree requirements of the catalog in effect at the time of his/her admission, or of any subsequent catalog in effect during his/her enrollment with the approval of the academic dean, provided that the required courses are still being offered. A student must complete all requirements within seven years or be subject to the degree requirements of a subsequent catalog. The seven-year period begins with the year the catalog was issued, regardless of the student's first semester of enrollment. Students entering the University for the first time during a summer session are subject to the requirements of the catalog for the next fall term, or of a later catalog.

A student transferring from a Texas two-year institution may select a catalog that was in effect prior to the first semester of enrollment at UTEP, as long as the student was following UTEP's degree plan while enrolled at the community college.

DEGREE PLAN

Students are advised to obtain and follow their major's degree plan when they first enroll at the University. Students are required to select a major and file a degree plan with the academic dean of that major by the time they complete 60 semester hours.

CHANGE OF MAJOR

A student who wishes to change majors must obtain permission of the dean of the college of the new major.

CONCENTRATIONS AND MINORS

Students interested in pursuing a concentration or minor in an area of study should refer to the college curriculum in the catalog or consult with their major advisor for further details.

COMPLETION OF FRESHMAN-LEVEL COURSES

All freshman-level courses that are required by specific course number must be completed before the student has completed 90 hours toward the degree. No credit for these freshman-level courses will be granted toward fulfilling the minimum credit hour requirements for the degree even though the courses must be completed.

ONE-HOUR COURSES

No more than six one-hour courses may be counted toward completion of the minimum total hours required for a degree (unless degree requirements specify otherwise), except with specific approval of the academic dean.

MAJOR EXAMINATIONS

At the discretion of the department concerned, a comprehensive examination may be required in the major subject under the following conditions:

1. Four hours written, or three hours written and one hour oral.

2. The department fixes the time and place, and supervises the examination.
3. In case of failure, the student may take another examination on a date determined by the department.

GRADE POINT AVERAGE REQUIRED FOR GRADUATION

A minimum grade point average of 2.0 must be achieved in all course work at The University of Texas at El Paso and in all transfer work counted toward the degree. The UTEP cumulative grade point average consists of all grades earned at this institution regardless of their applicability toward a degree. Transfer credits may be counted toward meeting degree requirements, but transfer grades and grade points do not enter into UTEP grade point average calculations. A minimum grade point average of 2.0 is required in the major. This is intended as a University-wide *minimum* and does not prevent a college from requiring a higher GPA in specific majors or programs, provided appropriate approvals have been obtained.

GRADUATION

Degrees are conferred at the end of each long semester (December, May) and each summer session (July). Formal commencement ceremonies are held in May for all candidates who complete degree requirements during the spring semester and in December for fall candidates.

Summer candidates may participate in the May commencement ceremony if no more than 6 hours are needed to complete the degree during the summer session. Summer candidates names will not appear in the May program. Summer candidates who do not participate in May commencement may participate in December commencement. Summer graduates' names will only appear in the December program.

Students must apply for graduation and pay the appropriate fee in order to be considered candidates for graduation. The application process begins with the academic dean and should be initiated during the next-to-last semester or session and completed no later than the published deadline in the Class Schedule. Summer candidates participating in May commencement must complete the application process by the published deadline for May graduation. The paid graduation application form will be collected by the Student Business Services Office for processing by the Registration and Records Office.

SECOND BACHELOR'S DEGREE

Applicants for a second baccalaureate degree must complete at least 24 semester hours at The University of Texas at El Paso, in addition to those counted toward the baccalaureate degree requiring the higher number of semester hours of credit. These additional hours must include at least 6 advanced hours in the major subject of the second degree. A student working toward a second bachelor's degree will register as an undergraduate senior.

A student who earned the first bachelor's degree at another institution must complete at least 30 hours at UTEP, including completion of the legislative requirements of 6 hours of American History and 6 hours of Political Science covering the Constitutions of the United States and Texas.

POSTHUMOUS DEGREE

A posthumous degree may be awarded only if the student was enrolled in courses that would have allowed the student to complete all work for the degree, and if the student had the appropriate grade point average in the required areas. For further information, individuals may contact the appropriate dean's office.

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Academic Honors

UNIVERSITY HONORS PROGRAM

Honors House

Hawthorne Street

(Behind the Academic Advising Center Bldg.)

Phone: (915) 747-5858

honors@utep.edu

<https://www.utep.edu/honors>

DIRECTOR: Jaime Mendez

The University Honors Program offers students a richer, more intense and challenging academic experience, as well as closer, more personalized contact with faculty and fellow students. Enrollment in Honors classes is limited to 20, and students must apply to participate in the program. To be eligible, entering freshmen must have graduated in the top 10% of their high school class or have obtained a 1030 on the SAT or 22 on the ACT. A cumulative 3.3 grade point average is the criterion for admitting current or transfer students. Participants must complete a minimum of one Honors course per year and maintain a 3.3 GPA to remain active in the program.

The program offers two options: the University Honors Degree or the University Honors Certificate. Both options are described below.

University Honors Degree

Candidates earn Honors in the areas specified below and complete either 6 hours of upper-division Honors credit or a 6-hour Honors Senior Project in their major. Recipients of the University Honors Degree must complete Honors courses in the following areas:

ENGL 1311-1312 At least 3 hours of English must be taken for Honors credit.

Entering freshmen who place beyond ENGL 1312 take an Honors sophomore or upper-division English course.

HIST 1301-1302 At least 3 hours of History must be taken for Honors credit.

POLS 2310-2311 At least 3 hours of Political Science must be taken for Honors credit.

8 hours of courses given by the departments of Biological Sciences, Chemistry, Geological Sciences, or Physics. At least 3 hours of science must be taken for Honors credit.

6 hours of upper-division work for Honors credit. Three of these hours may be satisfied through approved independent study.

OR

A 6-hour Honors Senior Project (HON 4395-4396). In several departments, completion of the Honors Senior Project may also qualify the student for Departmental Honors recognition: Political Science, Psychology, History, Chemistry, Biological Sciences, Geological Sciences, and Physics.

AND

Additional Honors credits as required to bring the total to 30 hours; the hours may be earned by enrolling in Honors sections or by contracting for Honors credit in non-Honors courses.

With approval of a student's departmental advisor and the University Honors Program Director, a maximum of 6 of these 30 hours may be taken on a Pass/Fail basis. Credits obtained on this basis may be used only for elective credit if approved by the student's academic department. Courses taken on a Pass/Fail basis are disregarded in determining the grade point average, thereby encouraging Honors students to enroll in a course for which they might otherwise feel inadequately prepared.

Completion of the above requirements with a cumulative GPA of 3.3 or higher at the time of graduation entitles the student to receive the University Honors Degree. The notation "University Honors Degree" will be added to the permanent academic record and the diploma, and all Honors courses completed will be designated with (H).

University Honors Certificate

Students who wish to pursue a less comprehensive Honors curriculum may elect to obtain the University Honors Certificate by completing 18 hours of Honors course work. At least 6 hours must be upper-division, and 3 of these may be by approved independent study. A maximum of 3 Honors hours may be taken on a Pass/Fail basis, with the same restrictions described for such courses in the University Honors Degree option. Upon graduation with a cumulative GPA of 3.3 or higher, the notation "University Honors Certificate" will appear on the permanent academic record and on the diploma, and all Honors courses completed will be designated with (H) on the transcript.

Honors Contract Credit

Honors Program members enrolled in a non-honors section of a course may arrange for special additional work under the supervision of the instructor. If the contract work is completed and evaluated as Honors quality by the instructor and a grade of "A" or "B" is earned for the course, Honors credit for the class will be awarded. Detailed guidelines and contracts are available at the Honors House.

Honors Transfer Credit

If an Honors course is completed elsewhere, at an institution accredited by the Association for Colleges and Schools, and transfers as the equivalent of a course offered at UTEP, the Honors course will be counted toward hours needed to earn the University Honors Degree or Certificate. If the Honors course completed elsewhere transferred to UTEP as TR (transfer elective), then the course must be evaluated on an individual basis by the Honors Director in consultation with the Honors Advisory Committee and a decision made based on course content. A minimum of 50% of the credits required for the Honors Degree or Certificate must be completed at UTEP.

Honors Recognition at Commencement

The Honors Degree candidate is recognized at commencement by the wearing of a gold stole. The Honors Certificate candidate is recognized at commencement by the wearing of a lilac cord. Students completing a senior thesis/project are recognized at commencement by wearing a dark green cord.

Honors (HON)

3300 Honors Colloquium (3-0)

Examination of a special topic or interdisciplinary area. May be repeated once for undergraduate credit as subject varies. Course approved for undergraduate or graduate credit.

4395 Honors Senior Thesis (0-0-3)

4396 Honors Senior Thesis (0-0-3)

Students will conduct an Honors Senior Project under the direction of a faculty member in their major department and report the findings, usually in thesis form. During the first semester (HON 4395), a prospectus prepared by the student describing the proposed project will be filed with the Honors office. The completed project will be defended orally. *Prerequisite:* Department approval.

National Student Exchange Program

(Texas Education Code, 51.930)

UTEP is a member of the National Student Exchange (NSE) Program that is a consortium of more than 170 state-supported colleges and universities. The program offers students the opportunity to broaden their academic and cultural awareness in different geographic settings across the United States and its territories and Canada. Students are able to enroll at a host university for up to one academic year and pay in-state tuition rates.

To qualify, a student must be full-time at the time of the application and the semester prior to the exchange, have a minimum cumulative grade point average of 2.5, and be a sophomore or junior at the time of the exchange. For more information, interested individuals should contact the NSE Coordinator at the Honors House at (915) 747-5858 or log onto <http://www.buffalostte.edu/nse>.

OTHER HONORS PROGRAMS

Departmental Honors Program

A student who wishes to earn departmental Honors must complete a senior thesis, senior project, or other special requirement, depending on the department. A departmental faculty member directs the project or thesis. The director, along with a departmental honors committee, judge the student's work, and outside referees may be consulted if deemed appropriate. Students may include departmental honors credits with University honors credits, upon consultation with the University Honors Program Director, in order to earn Honors at both levels. The following offer Departmental Honors: Biological Sciences, Chemistry, Geological Sciences, History, Physics, Political Science, and Psychology.

Dean's List

At the end of each fall and spring semester, the Registration and Records Office prepares a Dean's List for each undergraduate college of all full-time undergraduate students who have completed at least 12 collegiate hours and have earned a minimum semester grade point average of 3.5. This honor is noted on the student's academic record.

Academic Honors

The University of Texas at El Paso offers three opportunities for students to achieve special recognition for academic performance at graduation. Graduation with any of these honors adds a special distinction to academic records and diplomas and may enhance the prospects for graduating seniors to enter graduate and professional schools or the job market. To be eligible for the following recognitions and/or programs, candidates must be among the most able and intellectually curious of students and must meet minimum GPA requirements.

Upon graduation, honors in the following categories will be awarded for each baccalaureate degree conferred upon students who have completed at least sixty (60) of the total required credit hours for their degrees at The University of Texas at El Paso:

1. Summa Cum Laude (Highest Honors) will be awarded to students who attain a minimum UTEP grade point average of 3.90.
2. Magna Cum Laude (High Honors) will be awarded to students who attain a minimum UTEP grade point average of 3.80, but who do not qualify for Highest Honors.
3. Cum Laude (Honors) will be awarded to students who attain a minimum UTEP grade point average of 3.50, but who do not qualify for High or Highest Honors.

In computing the minimum grade point average for academic honors at graduation, only grades earned at UTEP applied to the degree will be included.

Requirements for honors for a second degree include the above requirements with the additional stipulation that the student completes thirty (30) hours beyond the original baccalaureate requirements.

Honors cords worn at commencement recognize the following academic achievements:

University Academic Honors-

Highest Honors..... Gold

High Honors..... White

Honors..... College Color

College of Business Administration..... Olive Drab
College of Education..... Lt. Blue
College of Engineering..... Orange
College of Liberal Arts..... Royal Blue
College of Health Sciences..... Salmon
College of Science..... Golden Yellow
School of Nursing..... Apricot
University College..... Wine

University Honors Program-

Honors Certificate. Lilac

Senior Thesis/Project.....Dark Green



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Student Life Policies and Procedures

Detailed policies and procedures affecting student life are printed in the *Handbook of Operating Procedures (HOP)* student section and are available on the Internet at <http://hoop.utep.edu>. The handbook supplements the rules and regulations of the Board of Regents and covers student conduct and discipline, use of University facilities, student organizations, educational records, and student publications. The *Rules and Regulations* of the Board of Regents of The University of Texas System are at <http://www.utsystem.edu/bor/rules>. The President has delegated responsibility for the administration of student discipline (academic dishonesty and general misconduct) to the Dean of Students.

STUDENT CONDUCT

While enrolled at the University, a student neither loses the rights nor escapes the responsibilities of citizenship. Any student who engages in conduct that is prohibited by the Board of Regents' *Rules and Regulations* or University rules, or by federal, state, or local law is subject to discipline whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct. All students are expected and required to obey the law, to show respect for properly constituted authority, and to observe correct standards of conduct.

The University of Texas at El Paso administers student discipline according to established procedures of due process. Procedures are defined and described in the *Rules and Regulations* of the Board of Regents, Rule 50101, and in the *Handbook of Operating Procedures (HOP)*.

Students should check with appropriate departments whose policy or regulation is of concern. If necessary, students need to refer to the rules in the Regents' Rules (<http://www.utsystem.edu/bor/rules>) and the HOP. The Office of the Dean of Students can assist on this matter. This set of rules is available at <http://hoop.utep.edu>.

OTHER PROHIBITED CONDUCT

Computer usage violations, use of alcoholic beverages, dishonesty, gambling, defacing of property, endangering the health or safety of others, use of obscene and threatening language, altering of records, possession or use of firearms, failure to respond promptly to official notices, etc. will subject the student to disciplinary action.

Penalties, which may be imposed in conjunction with the approved disciplinary procedures, include the following: written warning, disciplinary probation, withholding of grades, withholding of official transcript or degree, restitution, failing grade, denial of degree, suspension and expulsion, revocation of degree and withdrawal of diploma, or other penalty as deemed appropriate under the circumstances. In addition, certain privileges may be withdrawn consistent with the severity of the offense and the rehabilitation of the student. These penalties may be imposed singularly or in any combination upon individuals, groups, or organizations.

ILLEGAL SUBSTANCES POLICY

The use, possession, or sale of any illegal drugs or narcotics including any amount of marijuana on the campus of the University is a violation of Regents *Rules and Regulations* and of University policies governing student conduct, as well as a violation of State Law. In addition to possible criminal prosecution, student offenders will be subject to disciplinary action by the University. The minimum disciplinary penalty that will be imposed is suspension from the University for a specified period of time and/or suspension of rights and privileges.

DISRUPTIVE ACTS POLICY

The obstruction or disruption of any teaching, research, administrative, disciplinary, public service, or other authorized activity on campus or under the authority of the University or on property owned or controlled by the University is prohibited and will subject the student or group of students to disciplinary action.

HAZING POLICY

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

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:

1. Any type of physical brutality, such as whipping, beating, striking, branding, electronic shocking, placing of a harmful substance on the body, or similar activity;
2. 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 or harm or that adversely affects the mental or physical health or safety of the student;
3. Any activity involving consumption of food, liquid, alcoholic beverage, liquor, drug, or other substance which subjects the student to an unreasonable risk or harm or which adversely affects the mental or physical health of the student;
4. 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;

5. Any activity that induces, coerces, or requires the student to perform a duty or task which involves a violation of the Penal Code.

5. Any activity that induces, causes, or requires the student to perform a duty or task which involves a violation of the Penal Code.

Activities which under certain conditions constitute acts that are dangerous, harmful, or degrading, in violation of Rules include but are not limited to:

- calisthenics, such as sit-ups, push-ups, or any other form of physical exercise;
- total or partial nudity at any time;
- the eating or ingesting of unwanted substance;
- the wearing or carrying of any obscene or physically burdensome article;
- paddle swats, including the trading of swats;
- pushing, shoving, tackling, or any other physical contact;
- throwing oil; syrup, flour, or any other individual interrogation;
- forced consumption of alcoholic beverages either by threats or peer pressure;
- lineups intended to demean or intimidate;
- transportation and abandonment (road trips, kidnaps, walks, rides, drops);
- confining individuals in an area that is uncomfortable or dangerous (hot box effect, high temperature, too small);
- any type of personal servitude that is demeaning or of personal benefit to the individual members;
- wearing of embarrassing or uncomfortable clothing;
- assigning pranks such as stealing, painting objects, harassing other organizations;
- intentionally messing up the house or room for clean up;
- demeaning names;
- yelling and screaming; and
- requiring boxing matches or fights for entertainment.

The University regards any form of hazing as a major violation, and any individual and/or registered student organization participating in such activities will be held responsible for those actions. According to the 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 engaging in hazing; by intentionally, knowingly, or recklessly allowing hazing to occur; or by failing to report first-hand knowledge that a hazing incident is planned or has occurred in writing to the Dean of Students or other appropriate university officials. The fact that a person consented to or acquiesced in a hazing activity is *not* a defense to prosecution for hazing under this law.

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

In an effort to encourage reporting of hazing incidents, the law grants immunity from civil or criminal liability to any person who reports a specific hazing event in good faith and without malice to the Dean of Students or other appropriate university officials, and It immunizes a person from participation in any judicial proceeding resulting from that report.

SOLICITATION

In general, solicitation is prohibited in any building, structure, or facility of the UTEP campus. Certain university activities are permitted as defined in the Handbook of Operating Procedures. This handbook is available for review in the Office of the Dean of Students and on the homepage of the Dean of Students at <https://studentaffairs.utep.edu/dos>.

STUDENT TRAVEL POLICY

Purpose

It is our policy to promote safe travel by students who participate in certain university organized and sponsored activities or events.

Policy and Procedure

1. This policy is 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:

a. **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 in writing by the designated administrator. The types of activities and events covered by this policy include course related field trips, recreational sports club trips, departmental sponsored trips, the activities of sponsored student organizations, and meetings of academic organizations where a student is officially representing the University; **and**

b. **The activity or event is located more than 25 miles from the University; and**

c. (i) **Travel to the activity or event is funded and undertaken using a vehicle owned or leased by the University; or**

(ii) **Attendance at the activity or event is required by a registered student organization and approved in accordance with this Policy.**

2. Registered student organizations that require their members to travel 25 miles or more from the University to attend an activity or event covered by this policy must obtain prior written approval for the proposed travel by the designated administrator.

3. The following provisions will apply to all travel covered by this policy.

a. All Motor Vehicle Travel.

Seat Belts:

Occupants of motor vehicles shall use seat belts or other approved safety restraint devices required by law or regulation at all times when the vehicle is in operation.

Alcohol and Illegal Substances Prohibited:

Occupants of motor vehicles shall not consume, possess, or transport any alcoholic beverages or illegal substances.

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. Where applicable, all travel participants are required to comply with The University of Texas System Business Procedure Memorandum 16-05-02, including, but not limited to, provisions concerning vehicle passenger capacity.

License and Training:

Each operator of a motor vehicle shall have a valid operator's license and be trained as required by law to drive the vehicle that will be used.

Proof of Insurance, Inspection, and Safety Devices:

Each motor vehicle must have a current proof of liability insurance card and State inspection certification, 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.

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 or regulations or guidelines promulgated by the university, whichever is lower, without scheduled rest stops or overnight stops.

b. Travel Using a Vehicle Owned or Leased by the University.

Service and Maintenance:

In addition to those provisions in Item 3.a., 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 Procedure Memorandum 16-05-02.

Operators of Vehicles:

All operators of vehicles owned or leased by the University shall be employees of the University and shall have a valid operator's license for the operation of the particular vehicle. In addition, operators shall have a current Motor Vehicle Record on file with the designated office of the University.

c. Travel Using Rented Vehicles.

In addition to those provisions specified in Item 3.a., the rental, use, and operation of all rented vehicles shall comply, where applicable, with the State contracts for rental cars and all applicable requirements of The University of Texas System Business Procedure Memorandum 16-05-02.

d. Travel by Common Carrier.

When a common carrier (bus, airline, etc.) is used for student travel covered by this policy, all reasonable steps will be taken to assure the travel is undertaken in conformance with this policy and all applicable federal, state, local, and university regulations.

4. Students are responsible for abiding by the rules and regulations contained in the UTEP Handbook of Operating Procedures while they are traveling. The sponsoring department may promulgate additional rules concerning expectations of students while on the trip.

5. As part of the approval process, all participants must sign an appropriate Release and Indemnification Agreement. All persons driving personal vehicles for travel covered by this policy must agree to comply with the requirements of 3.a. and produce some evidence of a valid operator's license for the vehicle to be used, current proof of liability insurance and Texas state inspection certificate.

COMPULSORY INSPECTION OF VEHICLE

The following notice is provided in accordance with Section 51.207 of the Texas Education Code: It is mandatory for all students enrolled in public institutions of higher education in the State of Texas to be in compliance with Vehicle Emissions Testing Laws before privileges may be granted to park or drive a motor vehicle that is not registered in this state on institutional property.

IMMUNIZATION REQUIREMENT

The health and safety of students is paramount to the University. Although certain immunizations are required only of students enrolled in specific health-related courses and programs, all students are strongly encouraged to obtain them for their own protection. Students may obtain information regarding the consequences of outdated immunizations for certain diseases, the age groups most vulnerable to these vaccine preventable diseases, and local providers of immunization services from the Student Health Center located on campus. Immunizations are available at the Student Health Center. To obtain information call (915) 747-5624.

In accordance with State law, the following immunizations are required for all students enrolled in health-related courses which will involve direct patient contact in medical or dental care facilities or who come in contact with human biological fluids or tissue. Students enrolled at UTEP are charged a reasonable fee for all immunizations.

- **Measles:** proof of two doses of measles vaccine administered on or after the first birthday and at least 30 days apart or 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 administered on or after the first birthday or proof of immunity;
- **Tetanus/diphtheria:** proof of one "booster" dose of tetanus/diphtheria (within 10 years);
- **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.

Note: Some colleges or academic departments may require additional immunizations. Certain exemptions are allowed from the immunization requirements. For further information, students should contact the Student Health Center or the academic department responsible for the courses or programs requiring immunizations.

A form on which the required immunizations can be documented is available from the Admissions Office or the Student Health Center. Since most secondary schools are required by law to maintain similar records, a copy of the high school immunization record may be submitted.

The Student Health Center is responsible for maintaining a record of those students who comply with these requirements and may recommend the placement of an administrative hold on records if they have not been met. The Student Health Center provides the required immunizations for all academic programs; however no X-ray screening is available. The HB vaccine is also available for a nominal charge for students enrolled in medical-related programs.

AIDS, HIV, AND HEPATITIS B INFECTION POLICY

The University of Texas at El Paso recognizes Acquired Immune Deficiency Syndrome (AIDS), Human Immunodeficiency Virus (HIV), and Hepatitis B Virus (HBV) as serious public health threats and is committed to encouraging an informed and educated response to issues and questions concerning AIDS, HIV, and HBV. To demonstrate its commitment, UTEP has adopted a policy and procedural steps to protect both the rights and well being of those students, employees, and patients who may be infected with HIV or HBV as well as to prevent the spread of infection. No individual with HIV or HBV infection will be discriminated against in employment, admission to academic programs, health benefits, or access to facilities. Students with HIV or HBV infection may attend all classes without restriction, as long as they are physically and mentally able to participate and perform assigned work and pose no health risks to others. All information regarding the medical status of UTEP, faculty, staff, and students is confidential.

A complete copy of the "AIDS, HIV and Hepatitis B Infection" policy can be found in the institutional *Handbook of Operating Procedures (HOP)* available in the Dean of Students Office, the Library, and the Student Health Center. This policy is applicable to all students of UTEP as they pursue their academic (and clinical) endeavors. An educational pamphlet on HIV infection developed by the U.S. Department of Health and Human Services and the Public Health Service will be made available to all students from the Student Health Center.

BACTERIAL MENINGITIS

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

What are the symptoms?

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

There may be a rash of tiny, red-purple spots caused by bleeding under the skin. These can occur anywhere on the body.

The more symptoms, the higher the risk, so when these symptoms appear, seek immediate medical attention.

How is Bacterial Meningitis diagnosed?

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

How is the disease transmitted?

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

How do you increase your risk of getting Bacterial Meningitis?

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

What are the possible consequences of the disease?

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

Can the disease be treated?

- Antibiotic treatment, if received early, can save lives and chances of recovery are increased. However, permanent disability or death can still occur.
- Vaccinations are available and should be considered for:
 - Those living in close quarters
 - College students 25 years old or younger
- Vaccinations are effective against 4 of the 5 most common bacterial types that cause 70% of the disease in the U.S. (but does not protect against all types of meningitis).
- Vaccinations take 7-10 days to become effective, with protections lasting a minimum of 8 years.
- The cost of the vaccine varies, so check with your health care provider.
- Vaccination is very safe-most common side effects are redness and minor pain at injection site for up to two days.
- Vaccination is available at the UTEP Student Health Center, on a walk-in basis.
- The City County Health Department, Immunization Outreach at 591-2050
- Pro Action-Tillman Health Center at 533-3414

How can I find out more information?

- Contact your own health care provider.
- Contact your Student Health Center at 747-5624
- Contact your local or regional Texas Department of Health Office at 834-7853.
- Contact websites: <http://www.dcd.gov/ncidod/dbmd/diseaseinfo>; <http://www.acha.org>

Requirement to obtain information on Bacterial Meningitis

- All incoming undergraduate and graduate students are required to obtain information about Bacterial Meningitis and sign an acknowledgement form with the Records Office, located in the Academic Services Building.

STUDENT RIGHT-TO-KNOW AND CAMPUS SECURITY ACT

In compliance with the Jeanne Seely Disclosure of Campus Security Police and Campus Crime Statistics Act of 1990, the University of Texas at El Paso collects specified information on campus crime statistics, campus security policies, and institutional completion or graduation rates. Pursuant to the federal law, alleged victims of violent crime are entitled to know the results of campus student disciplinary proceedings concerning the alleged perpetrators.

UTEP makes timely reports to the campus community on crimes considered to be a threat to students and employees, and crimes are reported to campus police or local police agencies.

Every October, UTEP publishes and distributes an annual report of campus security policies and crime statistics to all current students and employees, provides copies of the report to applicants for enrollment or employment upon request, and submits a copy of the report to the Secretary of Education upon request. The annual campus crime statistics report references crimes which occur on the campus property owned or controlled by UTEP or within a contiguous geographic area of the institution. Statistics for off-campus buildings or property owned by student organizations that are registered by the institution are also reported when such statistics are available from local police departments.

In addition, UTEP publishes in the annual security report its policy regarding sex-related offenses, including sexual assault prevention programs, education programs to promote awareness of sex offenses, administrative disciplinary procedures and sanctions for offenders, and counseling and student services for victims.

UTEP annually calculates and discloses institutional completion or graduation rates for undergraduate students to all prospective and current students. (The federal requirement for calculation of a completion or graduation rate applies only to institutions of higher education that admit undergraduate students who are enrolling for the first time at an institution of higher education and have not enrolled previously at any other institution of higher education.) Prior to the offer of athletically-related student aid to a potential student athlete, UTEP provides certain information on graduation rates specified by the Act to the prospective student and to the student's parents, guidance counselor, and coach.

Further information concerning Student Right-To-Know and Campus Security can be found at the following web site www.campusafety.org and at <https://admin.utep.edu/police>.

STUDENT GRIEVANCE PROCEDURES

Grade Appeals

A student may challenge his/her grade as determined by a member of the faculty of the University during or within one year after the end of any credit course, qualifying or comprehensive examination, for which the student has been enrolled or three months following the term the graduate degree was awarded. A challenge to a grade may be pursued only on the basis of malice, bias, arbitrary, or capricious grade determination, or impermissible discrimination. In no event shall a challenge be pursued on the basis of the standards employed in setting grades, so long as those standards are employed impartially.

The student should first attempt to resolve the question through consultation with the faculty member who assigned the grade. The student should then attempt to resolve the question through consultation with the administrator(s) to whom the faculty member reports. Having failed to resolve the matter after consultation with both the faculty member and her/his supervisors, the student may consult with and/or file a challenge with the Chairperson of the Student Welfare and Grievance Committee. Students should contact the Dean of Students for specific information or download a copy of the grievance form and instructions on the Dean of Students web page at <https://studentaffairs.utep.edu/dos> and click on Student Conduct.

Non-Academic Grievances

Non-academic grievances of policies and procedures of University departments related to matters other than discrimination, such as the application or interpretation of student policies, must be initiated by making an effort to resolve the matter with the individual involved in the interpretation or decision. If the matter is not resolved, it must be submitted in writing to the Provost or his/her designee within 10 working days of the questioned decision or interpretation.

EQUAL EDUCATIONAL OPPORTUNITY

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

Complaints regarding discrimination should be reported to the University's Equal Opportunity/Affirmative Action Office. The University's full policies, including complaint resolution procedures, on equal opportunity, sexual harassment and misconduct and accommodations for individuals with disabilities are available in the *Handbook of Operating Procedures and on the webpage of UTEP's Equal Opportunity/Affirmative Action Office*. Inquiries regarding applicable policies should be addressed to the University's Equal Opportunity/Affirmative Action Office, Kelly Hall, 3rd Floor, or at (915) 747-5662 or eeoa@utep.edu.





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STUDENT SERVICES

Student Services

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- Campus Cultural Programs
- Career Services
- Disabled Student Services
- El Paso Centennial Museum/Chihuahuan Desert Gardens
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- Student Development Center
- Student Government Association
- Student Health Center
- Student Publications
- Student Support Services Program (SSSP)
- Union
- University Bookstore
- University Counseling Center
- Women's Resource Center



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Student Services

The University of Texas at El Paso offers a wide array of services for students to ensure that student needs, concerns, and interests are addressed.

Adelante Child Development Center

Phone Number: (915) 747-5270

Website: <https://studentaffairs.utep.edu/childcare>

Child care is available for children of all students, staff, and faculty of the University. The Adelante Child Development Center is located at 1825 Hawthorne and is managed and operated by Adelante Childcare, Inc. Children aged three months to 12 years are accepted, depending on space availability (hourly, daily, weekly care available; Summer Camp for school age children). Age appropriate early childhood developmental programs are offered in the curriculum. The Adelante Child Development Center is licensed by the Texas Department of Protective and Regulatory Services. Financial assistance is available for qualifying parents through Child Care Services.

Campus Cultural Programs

Website: www.utep.edu

Each year departments across campus sponsor hundreds of cultural events including concerts, music theatre productions, plays, art exhibits, ballet and dance performances, films, and lectures.

Theatre and dance productions are performed in the Wise Family Theatre, the Studio Theatre in the Fox Fine Arts Center, and the Magoffin Auditorium. University Dinner Theatre productions are presented in the Student Union West Building. Music activities such as the University's Symphony Orchestra, Symphonic Band, Opera, Jazz Bands, Pandemonium Steel Drums, Choral and Chorus, Jazz Singers, and chamber groups are held in the Fox Fine Arts Center's Recital Hall or the Magoffin Auditorium. Faculty, student, and touring art shows are exhibited in the Stanlee and Gerald Rubin Center for Contemporary Art, the Glass Gallery in the Fox Fine Arts Center, and the Student Union Gallery in the Union East Building. A film series is also presented annually in the Student Union East Building.

Lectures and a variety of other public programs are part of the yearly schedules of all UTEP Colleges, Academic Departments and Centers as well as the University Centennial Museum and Chihuahuan Desert Gardens. The Student Development Center provides a wide-variety of student programming ranging from lectures to artistic performances.

Career Services

Phone Number: (915) 747-5640

Website: www.utep.edu/careers

The Department of Careers Services, as part of the Division of Student Affairs, provides programs and services designed to foster the career development of UTEP students and alumni from all academic disciplines. Toward this end, the Department provides the following services:

- Career Advising
- Resource Center (career development literature, employer information, and on-line resources)
- Career Development Activities and Workshops (resume writing, interviewing, job search correspondence, etc.)
- Resume Reviews
- Job Listings and Referrals (part-time student employment, cooperative education and internship opportunities, and professional employment)
- Cooperative Education/Internship Program (career-related experience for college students)
- On-Campus Interviews
- Career Fairs

Students are encouraged to visit Career Services early in their university career to develop a personalized career-development action plan. Career counseling services are offered by the University Counseling Center.

Disabled Student Services Office (DSSO)

Phone Number: (915) 747-5148 Voice/TTY

Website: www.utep.edu/dsso

The Disabled Student Services Office (DSSO) provides a program of support to students with physical, or mental impairments, as well as those who become temporarily disabled due to an injury or recent surgery, and to women with "at risk" pregnancies.

DSSO provides the following services as accommodations: note taking, sign language interpreters, reader services, priority registration, use of adaptive technology, alternative test formats, testing accommodations and advocacy.

Students requiring accommodations must schedule an intake interview with the Director of DSSO and provide medical and/or diagnostic documentation verifying a disability. The documentation must clearly state symptoms and limitations that adversely affect academic performance. All information provided to DSSO is treated as confidential. Students should be aware that faculty members are not obligated to provide accommodations without proper notification from DSSO.

If a student has, or suspects they have, a disability that is adversely affecting academic performance, he/she should contact the Disabled Student Services Office immediately to discuss available options.

Phone Number: (915) 747-5565
Website: www.utep.edu/museum

The El Paso Centennial Museum was built in 1936 with funds allocated by the Commission for the Texas Centennial Celebration. As the University's museum, it serves students and the El Paso/Juarez communities. The mission of this natural and cultural history museum is to preserve, document, exhibit, and educate about the Southwest and Mexico. Noteworthy collections pertaining to Geology, Anthropology, Archaeology, Paleontology, Ornithology, and Mammalogy include rocks, crystals, minerals, pottery, stone tools, shell jewelry, and baskets. The Chihuahuan Desert Gardens, dedicated in 1999, are located on the west side of the museum. They contain plants of the region in settings that can be adapted for area businesses and homes. Basic museum and special project classes are offered to UTEP students. Temporary exhibits, lectures, gallery talks, youth classes, adult workshops, and volunteer activities are educational offerings. The Museum is free and open to the public.

Food Services

Phone Number: (915) 747-5628
Website: www.admin.utep.edu/sodexho

UTEP Food Services strives to provide the best quality food at the most convenient locations. Students, staff and faculty members are encouraged to visit one of the many food venues located throughout campus.

- *B*-Breakfast available
- *E*-Open during evening hours

UTEP Union East Building 2nd Floor (Food Court)

- *B* Chick-Fil-A (deli)
- Firehouse Grill (grill and tortas)
- *B* El Cazo (comida Mexicana),
- Garden Gourmet (hand tossed salads, soups, and display cooking featuring international cuisine)

UTEP Union East Building 2nd Floor

- Pizza Hut Express (pizza and wings)
- *E* Mine Shaft (pizza, wings, grab and go)
- Chopsticks (Asian cuisine)

UTEP Union East Building 1st Floor

- *B* *E* Freshens/Starbucks (Starbucks coffees, smoothies, frozen yogurt, grab and go)

The El Paso Natural Gas Conference Center

- *E* Quiznos (deli)
- *B* Delicious Mexican Express (comida Mexicana)
- Miner Grill (grill)
- *B* Pete's Arena (pizza and pasta)

Library

- *E* Jazzman's Café (upscale coffee and pastry shop)

College of Business Administration 3rd Floor

- *B* *E* Miner Stop (grab and go)

College of Education 2nd Floor

- *B* *E* Café a la Cart (grab and go)

College of Health Sciences

- *B* Healthy Corner (grab and go)

Swimming and Fitness Center

- *E* Gold rush (energy stop, smoothies, grab and go)

Academic Services Building

- *B* Jazzman's Café (upscale coffee, sandwiches, salads, and pastries)

Miner Meals are dollars placed on the Miner Gold card that are held in reserve exclusively for food purchases. With Miner Meals, students, faculty, and staff can receive an automatic 10% discount on all food purchases. Miner Meals can be purchased in \$50 increments at Student Business Services, located on the first floor of the Academic Services Building.

UTEP Catering Services offers a full range of services for banquets, receptions, meetings, conferences, and private functions. A dynamic menu is designed to meet the diverse needs of any group and function.

UTEP Concessions provides a variety of tasty options at sporting and special events. From traditional hot dogs to local favorites, your cravings are sure to be satisfied.

Intercollegiate Athletics

Phone Number: (915) 747-5347
Website: www.utepathletics.com

UTEP is an NCAA Division I school and is a member of Conference USA. Sponsored sports are football, men's and women's basketball, men's and women's cross country, men's and women's golf, men's and women's indoor track and field, men's and women's outdoor track and field, women's tennis, women's rifle, women's soccer, women's softball, and women's volleyball.

Football is played in the 52,247-seat Sun Bowl Stadium, which is located on campus and nestled in the southern tip of the Rocky Mountains; men's and women's basketball plays in the 11,767-seat Don Haskins Center; and women's volleyball plays at Memorial Gymnasium, which seats 3,000 people. Soccer plays at the University Soccer Field with the Rocky Mountains as a backdrop. The track program runs at Kidd Field, which seats 15,000 people. Teams nationally ranked in recent years include men's basketball, football, men's

golf, cross country, indoor and outdoor track and field and women's rifle.

International Programs

Phone Number: (915) 747-5664

Website: <https://studentaffairs.utep.edu/oip>

The Office of International Programs serves as the primary source of information and assistance for the international community at UTEP. Its services include:

- Advising for international students and scholars on immigration, financial cross-cultural and personal issues
- PASE (Programa de Asistencia Estudiantil) program administration: a Texas initiative for a waiver of out-of-state tuition for Mexican nationals who can prove financial need
- Study abroad advising and program administration, including the UTEP Study Abroad Scholarship, the Fulbright Scholarship, and others
- International and multicultural activities on campus highlighting the multicultural nature of El Paso and UTEP through cultural events and presentations involving UTEP's diverse population
- Administration of the Good Neighbor Scholarship and the Frank and Polly Ann Morrow Awards for Outstanding International Students.

The Office is located in the Union East Building, Room 203.

KTEP Public Radio

Phone Number: (915) 747-5152

Website: www.ktep.org

KTEP 88.5 FM broadcasts news, information, and cultural programming 24 hours per day for the University as well as El Paso, Southern New Mexico, and Juarez. KTEP is a member of National Public Radio and Public Radio International. The station trains UTEP students in broadcasting, and students can work at the station either as interns or volunteers. KTEP is equipped with the latest in digital broadcast technology. KTEP began broadcasting in 1950 and was the first FM station in El Paso and one of the first in the Southwest. A quarterly programming guide is available by calling (915) 747-5152.

Miner Village

Phone Number: (915) 747-5352

Website: www.utep.edu/housing

While there are several offices and departments on campus that are devoted to student success, there is only one that welcomes students home! Since 2001, the dedicated Housing and Residence Life staff of Miner Village has served the students of UTEP in one of the most modern facilities in the state of Texas. All apartments are fully furnished, with local telephone service, basic cable, refrigerated air, and internet connections. There are laundry facilities, a sand volleyball court, and off-campus restaurants and stores in walking distance.

Whether you are a student-athlete with a busy season ahead, an international student visiting the United States for the first time, or an El Paso native looking for a new experience away from home, Miner Village offers its residents a unique on-campus environment...and the skills needed to be a responsible student, roommate, and citizen.

Professional and Continuing Education (PACE)

Phone Number: (915) 747-5142

Website: www.utep.edu/pace

The role of the PACE is to offer a variety of continuing education and professional development opportunities, along with credit course offerings. Professional and Continuing Education consists of ten major program areas:

1. **Credit Courses** are designed to meet the needs of students at various stages of their careers and education attainment levels. All credit courses are accredited and are transferable to degree programs at UTEP.
2. **Community Programs** offer short courses quarterly for personal and professional enrichment for adults and youth.
3. **Career Development Programs** offer courses that provide individual professional growth.
4. **Business, Manufacturing, and Professional Programs** offer opportunities for individuals of varying levels of experience from both the public and private sectors to develop new skills, meet license or certification renewal requirements, and update knowledge.
5. **Technology Education Programs** provide critical training for a broad range of computer software and user levels to the general public and business community.
6. The **English Language Institute (ELI)** conducts intensive English training on a full-time basis for the TOEFL to enter UTEP.
7. **Faculty and Staff Training and Development** provides training offerings to University employees through the One-Stop Training Shop offered in collaboration with the University's Human Resource Services office.
8. **Summer Athletic Camps:** PACE oversees the athletic camps offered by the various UTEP NCAA Athletic programs.
9. **Advanced Placement Summer Institute** trains area teachers and administrators to prepare students for the AP exam.
10. The **Center for Lifelong Learning (CLL)** is an educational program planned and operated by and for individuals fifty years of age or older. The CLL provides learning opportunities for those eager and willing to learn and take an active role in renewing or expanding their education and enriching their lives.

For more information contact PACE at (915) 747-5142 or visit the office at Miners' Hall, Room 108.

Recreational Sports

Phone Number: (915) 747-5103

Website: www.utep.edu/rsd

The Recreational Sports department provides an opportunity for each member of the University community to voluntarily participate in a wide variety of sports and leisure activities.

- **Intramural Sports Program** offers approximately 40 activities for men and women with a valid UTEP ID
- **Outdoor Adventure Program** offers equipment rental and outdoor trips to UTEP students, staff and faculty
- **Challenge Course** is a half day or full day team development program
- **Fitness Programs** are non-credit exercise classes offered to UTEP students, staff and faculty at a minimal fee
- **Sports Clubs** are available for registered UTEP students who may want to participate in extramural competition
- **Open Recreation** provides the use of sport facilities for leisure play. Equipment is provided with a valid UTEP ID
- **Swimming and Fitness Center** consists of an exercise room with cardio machines, weight machines, free weights and two swimming pools.

For further information visit the Recreational Sports website or call Memorial Gym at (915) 747-5103 or the Swimming and Fitness Center at (915) 747-8100.

Special Events**Phone Number: (915) 747-5481****Website: www.utep.edu/events**

There is no business like show business! For over a decade the Office of Special Events has been dedicated to bringing quality entertainment to the UTEP and El Paso communities.

The office operates as a full production house in the booking of the following UTEP special event facilities: Sun Bowl Stadium, Don Haskins Center, and Magoffin Auditorium. A variety of events are presented each year. Past events include *Juanes*, *Aerosmith*, *Linkin Park*, *Fleetwood Mac*, *Cher*, *Shakira*, *The Eagles*, *Ricky Martin*, *NSYNC*, *The Rolling Stones*, *HBO's Oscar de la Hoya Fight*, *WWE*, and international soccer *Pumas vs. Tigres* among many, many others.

The Office of Special Events is also responsible for the programming of the Wednesday Music Café FREE Concert Series, the Union Exhibition Gallery and the Art and Foreign Film series, host of the Cinema Novo Film Society of El Paso, the only art film society in the city.

Student Development Center**Phone Number: (915) 747-5670****Website: <https://studentaffairs.utep.edu/sdc>**

The Student Development Center (SDC) is a one-stop clearinghouse of information and resources for UTEP students involved, or who want to become involved, in campus life. The SDC provides students with opportunities to get involved in leadership activities, campus activities, health awareness, diversity initiatives, student organizations and/or Greek Life.

The Student Development Center works with over 180 student organizations on campus. These organizations are categorized as follows: Academic/Professional, Advocacy, Graduate, Greek, Governing, Honorary, International, Professional, Recreational, Religious/Spiritual, Service, Special Interest, Social, and School/Community Spirit. The SDC provides a variety of programs to enhance student organizations through personal consultations, publications and workshops. Please visit the SDC website for more information on how to start an organization and view helpful links for student organizations.

Student Government Association**Phone Number: (915) 747-5584****Website: <https://studentaffairs.utep.edu/sga>**

The Student Government Association (SGA) is the official voice of the student body. The SGA maintains an open channel of communication between the student(s) and university administration by voicing to the University administration the concerns of the student body and informing students about changes in policy that will affect campus life and student activities. SGA's goal is to make every student's college experience a complete one – developing them both academically and personally.

SGA takes pride in the diversity of the student body and is dedicated to providing assistance to and support for all student organizations and campus activities whenever possible. Recognizing the campus' unique diversity, SGA works to assure that every student or group of students is treated with respect and dignity in order to maintain an atmosphere of tolerance and understanding among all members of the campus community.

Student Health Center**Phone Number: (915) 747-5624****Website: www.utep.edu/dsso**

The Student Health Center (SHC) is located directly across from the Library and offers confidential health care services to all University students presenting a valid UTEP ID. FREE services include: office visits, nutritional counseling and HIV/AIDS testing (which is done every Wednesday from 11:00 a.m. - noon). Laboratory tests, pap smears, vaccinations and many other services are provided at reduced rates.

Referrals outside the Student Health Center for stitches, x-rays, specialists, etc. are at the student's own expense. All emergencies are referred to local hospitals. Minor illness, injury or health concerns are treated by the SHC's professional staff.

Student insurance is available and recommended for every student without insurance coverage. Information on student health insurance may be obtained by calling: (888) 344-6105.

Student Publications**Phone Number: (915) 747-5161****Website: www.utep.edu/studentpublications**

Student Publications offers motivated students the opportunity to gain hands-on, professional experience in a variety of facets of publishing through *The Prospector*, a semi-weekly student newspaper, and *Mnero Magazine*, a bilingual, bicultural publication produced once each fall and spring semester.

Students who work within the department receive training to become reporters, photographers, graphic designers, editors or advertising sales representatives in a professional environment using the latest computer-based publishing technology. Students must maintain a GPA of at least 2.0 and be enrolled for at least 9 undergraduate hours or 6 graduate level hours.

To ensure freedom of expression, a Student Publications Committee, composed of UTEP faculty, staff and students, oversees the student-produced publications. Student Publications' mission is to produce talented, ethical and well-qualified journalists, photographers, designers and advertising professionals through experiential training that will lead them to successfully pursue and thrive in their chosen careers.

Student Support Services Program (SSSP)**Phone Number: (915) 747-5349/8602****Website: <https://studentaffairs.utep.edu/sssp>**

This federally funded TRIO program provides intensive academic and personal support for first-generation, economically disadvantaged students with academic need from their freshman year through graduation. First year participants are enrolled in learning communities for two semesters to help them adjust to the demands of college. Students meeting the above criteria may apply to the program in Room 300 of the UTEP Library.

Union**Phone Number: (915) 747-5711****Website: www.utep.edu/union**

The Union Building is the community center for the University of Texas at El Paso. Its primary goal is to provide services and facilities for the university community in support of the academic and student development mission of the University.

As the "epicenter" of the campus, the Union Building not only serves as a gathering place but also provides an atmosphere that fosters the exchange of ideas representing the diverse backgrounds of members of the university community.

The Union Services office is located in the Union Building, Room 307.

University Bookstore
Phone Number: (915) 747-5594
Website: www.utepbookstore.com

The University Bookstore, located on the first floor of the Union East Building, is responsible for having required academic textbooks and supplies for students. The Bookstore also provides the University community a large variety of reference books, school and office supplies, computer software and accessories, calculators, UTEP apparel and gift items, commencement apparel and invitations, magazines, book buy backs, special book and software orders, specialty plaques, and computer hardware orders. The University Bookstore is managed and operated by Follett Higher Education Group.

University Counseling Center
Phone Number: (915) 747-5302
Website: www.utep.edu/counsel

The University Counseling Center provides free and confidential services in Spanish and English to currently enrolled UTEP students. Services include career counseling to help students clarify their academic or career goals and overcome obstacles to learning and decision making. The Center also provides personal counseling to address issues that can affect a student's ability to perform optimally in his or her academic and professional endeavors. Lastly, the University Counseling Center provides educational workshops, outreach programs, and self-help resources on everything from stress and time management to self-esteem and relationship issues. Hours of operations are 8:00 a.m. – 5:00 p.m., Monday through Friday with extended hours (open until 7:00 p.m.) during the fall and spring semesters on Mondays and Tuesdays.

Women's Resource Center
Phone Number: (915) 747-5291
Website: <https://studentaffairs.utep.edu/wrc>

The Women's Resource Center (WRC) empowers women to achieve their holistic (personal, academic, professional and spiritual) goals, promote social justice through education programs, support groups, and a safe environment to foster health and wholeness in all people. The WRC provides students with a library of books, magazines, videotapes, and health-related brochures as well as access to a computer lab. There is also a microwave, refrigerator, and telephone designated for student use. The WRC's knowledgeable staff offers community resource information and networking opportunities. These services are available to women and men who identify as allies, including staff, faculty, and families.

The WRC is a welcoming space for Lesbian, Gay, Transgender, Queer and Intersex (LGBTQI) community members. It is committed to promoting an environment free from hatred and discrimination based on sexual orientation, gender identity, or gender expression. The WRC empowers everyone to be authentic and share their experiences. Students will find understanding and acceptance here.



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UNDERGRADUATE STUDIES and UNIVERSITY COLLEGE

[Undergraduate Studies and University College Administration](#)

[Undergraduate Studies Departments](#)

- Admissions and Recruitment
- Financial Aid
- Student Assessment and Testing
- New Student Orientation
- Registration and Records

[University College Departments](#)

- Academic Advising Center
- Developmental Education
- Entering Student Program
- Student Success Programs
- Multidisciplinary Studies Program/BMS



[Text/HTML](#)

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Undergraduate Studies and University College Administration

Undergraduate Studies and the University College house UTEP's enrollment service departments and academic support programs for entering students. Undergraduate Studies consists of five departments : Admissions and Recruitment, Financial Aid, Student Assessment and Testing, New Student Orientation, and Registration and Records. The University College consists of four departments : Academic Advising, Developmental Education, the Entering Student Program, and Student Success Programs. We have combined the enrollment process with academic components to create an approach that focuses on your success and your best interests.

Undergraduate Studies and the University College were two of several enhancements developed to help you make more informed choices, increase retention of our students, and strengthen undergraduate education. These departments guide you through recruitment, admissions, placement, academic advising, registration, and enrollment in Entering Student Program classes. This process highlights our commitment to you, particularly our first year students. The University College now offers the Bachelor of Multidisciplinary Studies degree as an alternative to traditional undergraduate degree programs.

MAGGY SMITH, *Vice Provost for Undergraduate Studies*

and *Dean of the University College*

218 Academic Services Building

(915) 747-5151

msmith@utep.edu

CRAIG WESTMAN, *Associate Vice Provost for Enrollment Management*

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Undergraduate Studies Departments

Admissions and Recruitment

102 Academic Services Building

Phone: (915) 747-5890

Fax (915) 747-8893

futureminers@utep.edu

www.utep.edu/admit

UNDERGRADUATE ADMISSION

The Office of Admissions and Recruitment assists you with enrollment in the University. It provides you with information about admission requirements and procedures, financial resources, academic program offerings, and general information about UTEP. In addition, this office determines your eligibility for admission and evaluates transfer credit according to standards set by Texas law, the Board of Regents of the University of Texas System, and UTEP faculty.

We encourage you to apply online through Apply Texas. This electronic application is used by all Texas public universities and can be found at www.applytexas.org. Admission applications are also available at the following locations:

1. Office of Admissions and Recruitment
2. www.utep.edu/admit
3. Counseling offices of most El Paso area high schools
4. El Paso Community College campuses

Application Dates and Fees

We encourage you to apply early. By meeting the priority dates, you will receive early consideration for admission and financial aid.

Applications for admission are due by the following Priority Dates:

| Applicant Type | Fall | Spring | Summer |
|----------------|-------|-----------|---------|
| First-year | May 1 | October 1 | March 1 |
| Transfer | May 1 | October 1 | March 1 |
| Summer Guest | N/A | N/A | March 1 |
| International | May 1 | October 1 | March 1 |

We will accept applications after the priority date if you submit the following:

All required documents prior to July 31 for the Fall semester, November 30 for the Spring semester, or April 30 for the Summer semester, and

A non-refundable \$15 late application fee made payable to The University of Texas at El Paso.

All applications and documents from our international students must be received by the Priority Date and must be accompanied by a non-refundable \$65 check or money order in U.S. dollars made payable to The University of Texas at El Paso.

Admission Policies and Procedures

The requirements for undergraduate admission to the University are described below and are based on your prior academic preparation. If your academic background does not meet the requirements for regular or provisional admission, you may be considered for additional review.

Secondary Admission Requirements Admission to the University does not assure admission into any programs that may have secondary admission requirements. You should consult with the appropriate department to determine what other requirements must be met.

The following first-year and transfer admission sections apply to citizens and permanent residents of the United States. Our international students should refer to the section on International Student Admission for admission and testing requirements.

First-year Admission Documents Required

If you have never attended another college or university, have been enrolled in dual credit programs, have earned credit by examination, or may have earned college credit through non-traditional methods (i.e. some military credit or credit from specialized schools), you should apply for freshman admission.

You must submit all admission documents, outlined below, directly to the Office of Admissions and Recruitment. Official transcripts must be sent directly from the schools attended, and official test scores must be sent directly from the appropriate testing agency. All transcripts in languages other than English or Spanish must be accompanied by an English translation prepared by the educational institution, an American Consulate, or a certified English translator. All documents submitted to the University become part of the official files of the University and cannot be released or returned to you or another institution.

Documents Required: To be considered for admission as a freshman, you must submit the following:

Application for admission

Official* SAT (Scholastic Assessment Test), ACT (American College Test), GED (Test of General Educational Development), TOEFL (Test of English as a Foreign Language), or PAA (Prueba de Aptitud Academica) scores, as described below, and

Final, official high school transcript indicating adequate high school preparation, rank, and graduation date

International Baccalaureate transcript, if applicable

GED scores if the applicant did not graduate from high school

Official* score report(s) verifying AP (Advanced Placement), CLEP (College Level Examination Program), SAT II Subject Exams, DSST (DANTES Subject Standardized Tests), or UTEP departmental examination scores; military AARTS or SMART transcript, if applicable

*Official test scores must be sent to the Office of Admissions and Recruitment directly from the testing agency.

High School Graduation

We welcome your application if you are a graduate of a high school recognized by state, private, or regional accrediting agencies and have the academic preparation necessary to pursue a baccalaureate degree. If you have never attended another college or university, your admission is based on high school academic preparation, final high school rank, and test scores. For early notification of acceptance, you should have verification of test scores, expected date of graduation, and a transcript sent directly from the high school to the Office of Admissions and Recruitment. After graduation, a final, official transcript must be submitted.

High School Preparation

If you are a high school student and intend to enroll at the University, you must take a college preparatory curriculum. All of our new first-year students admitted to UTEP within five years of graduation from a Texas high school must have completed the Recommended High School Program. The Recommended Program consists of 24 credits, including 16 credits in the core areas. Completion of the Recommended High School Program also makes you eligible for consideration for the need-based TEXAS Grant Program. Our graduates of non-Texas high schools, private schools, or home schools must meet the 16-credit core requirement, in addition to any other requirements set by their high schools. If your high school preparation varies from that described, you will be reviewed on an individual basis.

| <u>SUBJECT</u> | <u>CREDITS*</u> |
|--|-----------------|
| English | 4 |
| Mathematics (Algebra I and II and Geometry) | 3 |
| <i>Students interested in Science and Engineering need an additional year of Pre-calculus, Trigonometry, Analytic Geometry or Elementary Analysis.</i> | 1 |
| Natural Science | 3 |
| (Biology, Chemistry, Physics, or Principles of Technology) | |
| Social Studies | 4 |
| (1 credit each of U.S. History, World History, and World Geography, ½ credit each of Economics and U.S. Government) | |
| Language Other Than English (2 years of the same language) | 2 |

* One year's work in a subject counts as one credit; a semester's work counts as a half credit. (The Recommended High School Program also includes credits in Health and Physical Education, Fine Arts, Speech, Technology Applications, and Electives.)

You may satisfy the requirement above if your official high school transcript or diploma states that you completed the portion of the recommended curriculum that was available, but you were unable to complete the remainder of the curriculum solely because courses necessary to complete it were unavailable to you as a result of course scheduling, lack of enrollment capacity, or another cause not within your control.

Admission Pathways

There are three pathways to admission for our first-time first-year students who wish to attend The University of Texas at El Paso.

Path 1: Top 10% Graduates

You are admissible to the University as a first-time, first-year student if you graduated from a Texas high school in the top 10% of your class and you submit all required credentials, including SAT or ACT scores, by the appropriate due date. You must also have either (1) successfully completed the curriculum requirements for the recommended or advanced high school program or its equivalent (described above); (2) satisfied the ACT's College Readiness Benchmarks that apply to you on the ACT assessment; or (3) earned a combined verbal, math, and writing score of at least 1,500 out of 2,400 on the SAT assessment. After admission, you must take the ACCUPLACER to determine first-semester course placement in reading, writing, and mathematics. You must register for these courses with the approval of your advisor.

Path 2: High School Rank and Test Scores

If you are a Texas high school graduate or a graduate of an out-of-state high school, you are admissible as a first-time, first-year student if you meet any of the criteria listed below:

| HS Rank in Class | Minimum SAT Combined | Minimum ACT |
|--|---|---|
| | Score (Verbal + Math) | Composite Score |
| Top 25% | No minimum, but scores must be submitted | No minimum, but scores must be submitted |
| Second 25% | 920 | 19 |
| Third 25 % | 970 | 20 |
| Fourth 25%, | 1010 | 21 |
| No HS rank, GED, unaccredited HS, or home school program | 1010 | 21 |

After admission, you must take the ACCUPLACER to determine first-semester course placement in reading, writing, and mathematics. You must register for these courses with the approval of your advisor.

If you are a Texas resident and do not meet these criteria, you may qualify for provisional admission into the START Program. Our non-residents may qualify through individual review, outlined later in this chapter.

Path 3: College Readiness

Many of our graduates of public high schools in Texas Educational Service Center Region 19 take the ACCUPLACER placement examination in their junior or senior year as a component of the El Paso Region College Readiness Initiative (CRI). If you took the ACCUPLACER during your junior or senior year and qualified to take UTEP college-level courses in English and mathematics, you will be admitted as a first-time, first-year student once you have submitted all required documents, including SAT or ACT scores. The ACCUPLACER scores required to take college-level courses are:

Reading = 78-120

Writing: Essay = 5 + Sentence Skills = 80-120 or Essay = 6-8

College Math = 20-80

Our graduates of private high schools, home schools, public schools outside of Region 19, or those who have a GED may also take the ACCUPLACER to be admitted to UTEP using the College Readiness standard. This may be done locally at UTEP, at El Paso Community College, or at ACCUPLACER test sites around the country. To find an ACCUPLACER test site outside of El Paso, check with college and university testing offices in your area, or call the College Board toll-free at (866) 607-5223.

If you do not meet the College Readiness standard, you may qualify through Individual Review, described later in this chapter.

START Program

If you are a first-time, first-year student who is a resident of Texas, and who does not meet the requirements for admission as stated above, you are eligible for provisional admission through the University's START Program. Our START students enroll in the College of Liberal Arts as START majors. If you are admitted as a START student, you must attend orientation, be advised in the Academic Advising Center, and earn a minimum 2.0 grade point average in at least 9 hours of prescribed University courses. We recommend summer enrollment for our START students.

During the first semester at UTEP, you must complete at least 9 semester hours with a minimum grade of "C" or "S" in each course selected from at least two of the following areas: English, Mathematics, Natural Science, Foreign Language, Social Sciences, or Humanities. A minimum cumulative grade point average (GPA) of 2.0 must also be maintained. Once these requirements have been met, you will be fully admitted to the University and may change majors.

If you do not clear provisional admission during the first semester, but have at least a 1.5 cumulative GPA, an additional START semester will be allowed to clear the admission conditions. If you do not satisfy the conditions of your provisional admission, you have two options if you wish to re-enroll at UTEP:

1. Apply for readmission and reinstatement by the Academic Advising Center after 2 calendar years have elapsed since the end of the last period of attendance; or
2. Apply for readmission to the Office of Admissions and Recruitment after attending another college or university where a minimum of 12 semester hours of college-level work with grades of "C" or better in each course were earned and a minimum cumulative 2.0 GPA was maintained.

If you experience extenuating circumstances, you may petition for reinstatement through the Academic Advising Center.

Testing Requirements for Students Whose High School Language of Instruction Was Not English

High school instruction in a language other than English. If you are a graduate of a high school outside the United States, you must demonstrate proficiency in English that will enable you to pursue university-level work successfully. If your high school education was not in English, you must take the TOEFL. You must earn a minimum score of 500 on the paper-based exam, 73 on the computer-based exam, and 61 on the Internet exam. The UTEP school code for the TOEFL is 6829.

High school instruction in Spanish. If your high school education was in Spanish, and you do not pass the TOEFL with the minimum scores required, you should take the PAA. A minimum score of 1,000 is required. If you are admitted on the basis of the PAA, you must enroll as a *Programa Interamericano Estudiantil (PIE)* major in the College of Liberal Arts and enroll in bilingual and ESOL (English for Speakers of Other Languages) courses. Once ESOL 1610 has been completed with a grade of "C" or better, students may change majors.

Graduates of U.S. High Schools Five or More Years Ago

If you are a first-year applicant who graduated from high school five or more years ago, you are not required to take an SAT or ACT test. However, a TOEFL or PAA may be required if your high school education was in a language other than English.

Students with Non-traditional High School Preparation

Students who did not graduate from high school. If you received a high school equivalency certificate, you are eligible for admission if you earn an average standard score of 45 or higher on the GED (Test of General Educational Development). A minimum SAT score of 920 on Reading Comprehension and Math sections with at least a 480 on Reading Comprehension or a minimum ACT score of 20 with at least an 18 on the English section is required if your high school class would have graduated within the past 5 years and you pass the English version of the GED. If you passed the Spanish version of the GED, you must submit scores of 1,000 or higher on the PAA. When you meet the Spanish GED and PAA requirements you will be admitted into the *Programa Interamericano Estudiantil (PIE)*.

Graduates of unaccredited high schools. If you graduated from an unaccredited high school, you may seek admission through individual review. In addition to the documents required for first-year admission, you should also provide as much supporting information as possible, including an academic profile of the school that you attended.

Home schooled students. If you are a home schooled student, you may seek admission through individual review. In addition to the documents required for first-year admission, information about the curriculum used and as much supporting information as possible (such as awards, honors or recognitions received) should also be submitted.

Individual Review

If you are a first-time applicant and do not meet the requirements for admission described above, you may seek admission as outlined in the Reviewed Admissions section of this catalog.

Transfer Admission

The University welcomes applications from qualified individuals who have begun their college work at other accredited institutions of higher education. Transfer counselors are available in the Admissions Office to assist you with the admissions application and course transferability information. Additional assistance is provided regarding orientation, financial aid, scholarships, testing, and academic advising.

Suspension periods The University honors suspension periods imposed by other colleges and universities. If you are ineligible to return to a previous institution or your official records will not be released, you are not eligible for admission to UTEP.

Application Documents If you have earned credit at another college or university, you may not disregard any part of your academic records, regardless of the amount of work completed or intent to have the credit transferred. Transfer credit used toward a degree at UTEP must be from institutions declared on the admissions application. Failure to provide complete information will be considered grounds for denial of admission, denial of transfer credit, cancellation of registration, or appropriate disciplinary action.

Documents Required: To be considered for admission as a transfer student, you must submit the following, as applicable:

Application for admission

Complete, official transcripts from EACH college or university attended. All transcripts in languages other than English or Spanish must be accompanied by a certified English translation

Official SAT or ACT scores and an official high school transcript (required of students who graduated from high school within the past 5 years and have not earned 12 semester hours of transfer credit) and

Official TOEFL or PAA scores (may be required of students whose high school education was in a language other than English).

Applicants who have completed a minimum of 12 college-level hours. You are eligible for admission to UTEP if you have completed a minimum of 12 semester hours of college-level work with grades of "C" or better and have maintained a minimum overall 2.0 ("C") grade point average are eligible for admission to UTEP.

Applicants who have completed fewer than 12 college-level hours. If you have earned fewer than 12 semester hours of college-level work, you are eligible for admission to UTEP if you earned grades of "C" or better in all courses taken, maintained a minimum cumulative 2.0 GPA, and meet the requirements for first-year admission.

Individual Review

If you do not meet the requirements for transfer admission described above, you may seek admission as outlined in the Reviewed Admissions section of this catalog.

TRANSFER POLICIES

Evaluation of Transfer Credit

Once you have been admitted to the University as a transfer student, the Office of Admissions and Recruitment will provide you with a generic evaluation of courses that are transferable to the University. Credits transfer into the University in several ways, including as elective credits. Acceptance of transfer credit by the University does not constitute approval of the credit for use toward a particular degree program. The applicability of transfer courses toward your degree is determined by your academic dean or designate. You should request a degree plan from your academic department or dean's office by the time 60 semester hours have been earned. Transfer credits are awarded according to the following policies:

1. Transfer credit is generally awarded for academic courses completed at regionally accredited or nationally recognized institutions, or from institutions that are candidates for regional accreditation if the credit was earned during the candidacy period.
2. In general, only academic courses that are comparable in content to those offered at UTEP are transferable, and transfer credit carries the same value as work completed at UTEP. Whenever possible, equivalent course numbers are given; if there are no numerical equivalents, elective (TR) credit is given.
3. Only courses with grades of "A," "B," "C," "D," "Credit," or "Pass" are evaluated, and quarter hours are converted to semester hours by multiplying the quarter hours by two-thirds.
4. Courses classified below freshman level by the sending institution are not transferable.
5. Courses from two-year lower division institutions transfer as lower division credit.
6. Undergraduate courses from four-year institutions transfer at the same level (lower-to-lower and upper-to-upper division).
7. Graduate-level coursework is not transferable as undergraduate credit.
8. There is no limit on the total number of hours that can be transferred from other institutions. However, a maximum of 66 semester hours of credit from two-year lower division institutions is applicable toward a degree at UTEP.
9. Grades earned at other institutions are not averaged into the UTEP grade point average. A transfer grade point average is not computed, and only credit hours transfer to the University.
10. Equivalent transfer credit for engineering courses is granted only for work completed at ABET-accredited institutions.
11. Equivalent transfer credit for upper division business courses is granted only for work completed at AACSB-accredited institutions.
12. Completion of the core curriculum, or blocks within the core, at another Texas institution is considered as completion of the core, or appropriate blocks within the core, at UTEP.
13. UTEP does not award university credit for professional certificates or life experience.

Resolution of Transfer Disputes

If the University refuses to accept lower-division credit earned at another Texas public institution of higher education, you and your previous institution will be given written notice that the transfer credit was denied. If you wish to dispute the non-transfer of credit, the University will attempt to resolve the issue with you and your sending institution according to applicable rules and guidelines of the Texas Higher Education Coordinating Board. If the dispute is not resolved to your satisfaction or to the satisfaction of your sending institution within 45 days of the initial notification, the University will notify the Coordinating Board of the denial of the transfer credit and the reason for the denial. The Coordinating Board will resolve the dispute and notify us of its findings.

Questions concerning the evaluation of transfer credit should be referred to the Office of Admissions and Recruitment. UTEP students who have difficulty having UTEP credit accepted at other Texas public institutions should contact the Director of Admissions and Recruitment at UTEP for initiation of the transfer dispute resolution process.

Reviewed Admission

If you do not meet the requirements for first-year or transfer admission described above or your individual circumstances are highly unusual with respect to your academic credentials, you may apply to be reviewed on an individual basis. This review gives consideration to your high school and college record, the strength of academic preparation, types of courses taken, and grades earned in specific courses. Performance on standardized tests is also considered. You may submit additional material or an essay for consideration in evaluating your potential for success at UTEP. Such material can document, for example, your work experience; achievements, honors and awards; responsibilities while attending school, including child or elder care or other major responsibilities; bilingual proficiency; socioeconomic background; residency status; involvement in community and extra-curricular activities; whether you are a first-generation college student; commitment to a particular field of study, strengths and talents that might not be apparent from the academic record, and experiences in surmounting obstacles in pursuit of higher education. Letters of recommendation from high school teachers, counselors, supervisors, and activity leaders are also appropriate.

INTERNATIONAL STUDENT ADMISSION

The University welcomes applications from qualified international students whose academic backgrounds indicate a high probability of success in desired academic programs. You must complete high school preparation, or its equivalent, that would qualify you for admission to recognized universities in your home country.

Your admission credentials will be evaluated on the basis of the admission requirements described below. If you have attended other colleges or universities, you should also refer to the **Transfer Policies** section of this catalog for additional information about the transferability of credit.

Documents Required. The University must receive complete, official, or school-certified transcripts of high school and university work sent directly from each institution that you attended. If the original documents are in your possession, copies certified by the school, college, university, or U.S. Consulate may initially be submitted and the originals should be presented to the Office of Admissions and Recruitment for validation when you arrive on campus. All transcripts in languages other than English or Spanish must be accompanied by certified English translations.

International applicants must submit the following documents:

Application for admission, accompanied by a \$65 application fee

Satisfactory SAT, ACT, PAA, or TOEFL scores as described below

Complete, official high school transcript

Complete, official transcripts from EACH college or university attended (transfer applicants)

Acceptable statement of financial support

International First-Year Admission

If you are a high school graduate and your academic credentials would make you eligible for admission to recognized universities in your home country, you will be considered for admission to UTEP if all other admission requirements are met. The academic average in areas related to the desired field of study should be equivalent to a 3.0 on a 4.0 scale, or a 7.0 on a 10.0 scale.

International Transfer Admission

You will be considered for admission to the University if you wish to transfer from an accredited college, or nationally or internationally recognized college or university, if you have a minimum overall grade point average of 2.0 or its equivalent, if you are eligible to return to all previous institutions attended, and all other admission requirements are met. If you are a transfer applicant who has been attending school in the United States on a student visa (I-20), you must have completed a minimum of 12 semester credit hours or the equivalent each long semester while in the United States. Failure to maintain this status will result in denial of admission to UTEP.

International Student Test Score Requirements

All international students who have not earned a baccalaureate degree from a college or university in the United States must submit entrance examination scores. All test scores must be official and submitted directly to the Office of Admissions and Recruitment from the testing agency. The UTEP school codes are 6829 for the SAT, 4223 for the ACT, and 6829 for the TOEFL. If you have successfully completed the University's English Language Institute, you meet the English proficiency requirement for regular admission.

High school instruction in English. You must take the SAT or ACT if your high school education was in English or you are proficient in English. An SAT score of 920 or higher on Reading Comprehension and Math sections, with a required minimum of 480 on Reading Comprehension is required. You must score a minimum Composite of 20 on the ACT, with a minimum of 18 on the English section. TOEFL scores may be submitted if your high school education was in English but your home country does not offer the SAT or ACT.

High school instruction in a language other than English. The TOEFL must be taken by if your high school education was not in English; a minimum score of 500 is required on the paper-based exam, 173 on the computer-based exam, and 61 on the Internet exam.

High school instruction in Spanish. The PAA (*Prueba de Aptitud Académica*) should be taken if your primary language is Spanish and you do not pass the TOEFL; a total score of 1,000 is required. If you are admitted on the basis of the PAA, you will enroll in the bilingual *Programa Interamericano Estudiantil* (PIE) program. PIE students must enroll in ESOL (English for Speakers of Other Languages) courses. Once ESOL 1610 has been completed with a grade of "C" or better, you may change into your major of choice.

If your academic background is unusual or is not described above, you should contact the Office of Admissions and Recruitment to determine which test is most appropriate. The Student Assessment and Testing Web site at www.utep.edu/testing contains information about test dates and registration.

International Student Financial Aid

Financial assistance for our international students is limited. Before being admitted, you must furnish a statement of financial support from parents or sponsors stating that you are able to finance the student's education while in this country. Citizens of Mexico who meet the requirements of the PASE (Programa de Asistencia Estudiantil) Program may qualify to pay Texas resident tuition. For additional information, contact the Office of International Programs at (915) 747-5664. To learn more about financial assistance, contact the Office of Financial Aid at (915) 747-5204.

SPECIAL ADMISSIONS PROGRAMS

Programa Interamericano Estudiantil (PIE)

Programa Interamericano Estudiantil is a bilingual instruction program designed for students from Spanish-speaking countries who wish to attend UTEP but who need to improve their English. We welcome your application if you scored 1000 or higher on the PAA. The *Programa Interamericano* coordinates first-level content courses taught in Spanish (for example, U.S. History) that you may take while enrolling in ESOL (English for Speakers of Other Languages) courses to increase your English language proficiency. Once ESOL 1610 has been completed with a grade of "C" or better, you may change into your major of choice, and use the courses taken toward your graduation requirements. To further assist you academically, academic advising is required every semester in the Academic Advising Center.

Summer Guest Program

If you are currently pursuing a degree at another institution, and you wish to continue your studies at UTEP during the summer, you may be admitted as a Summer Guest (transient) Student. To be considered for admission as a Summer Guest, you must submit the following:

Summer Guest application

Official transcripts showing a minimum of 12 semester hours of college level work with a minimum cumulative GPA of 2.0

Official transcripts are also needed to verify prerequisite requirements for the summer courses that you wish to take at UTEP. A new application must be submitted for every subsequent summer enrollment along with updated official transcripts. Should you wish to be admitted to the University on a regular basis, you must apply for admission as a transfer student.

For transfer admission information, please contact the Office of Admission & Recruitment's Transfer Center at (915) 747-5777.

Junior Scholars Program

The Junior Scholars Program is a cooperative effort between The University of Texas at El Paso and El Paso area public and private schools that allows qualified students to enroll in regular University courses while attending high school. Hours earned will count as University credit and some courses may also be approved to apply toward high school graduation requirements. For more information on this program, contact Student Success Programs at (915) 747-5858.

Early Admission Program

The University's Early Admission Program allows you to enroll concurrently in high school and University courses if you are in your last semester of high school and meet the requirements for first-year admission. If you are interested in early admission, you must also submit a letter of recommendation from your high school counselor or principal. Continued high school enrollment and high school graduation are conditions of the Early Admission Program. For more information, contact the Office of Admissions and Recruitment at (915) 747-5890.

Flexible Admission Program (FLEX)

The Flexible Admission Program is designed for our first-time, non-traditional students who have never attended a college or university and who do not intend to pursue a degree at the time of admission. As a FLEX student, you may take selected basic courses to meet your personal educational objectives or to complete courses in a particular field for professional reasons. As a FLEX Program applicant, you must meet the following criteria:

- Be at least 23 years of age,
- Be a citizen or permanent resident of the United States,
- Have had no previous college or university experience,
- Complete the undergraduate application for admission.

If you are admitted under this option, you are subject to the same tuition, fees, and regulations as degree-seeking students. A maximum of 30 semester hours may be accumulated while in the FLEX Program, and the Director of Admissions must approve any FLEX enrollment beyond 30 hours. Should you choose to change from FLEX to degree-seeking status, you are required to meet all the requirements for regular admission. The late application fee does not apply to you as a FLEX applicant. Admission into a non-degree program such as FLEX excludes you from participation in federally funded financial aid programs.

German *Abitur* Program

German NATO forces stationed at Ft. Bliss often have children whose high school education has been interrupted by their family's move to the United States. UTEP has developed a 60 hour academic curriculum that the German Ministries of Education consider to be equivalent to completion of the *Abitur*, which is the diploma required for admission to higher education in Germany. Students who complete this curriculum at UTEP can be considered for admission to German universities when you return home. In order to participate in the *Abitur* program, you must apply for admission, submit documents showing completion of a United States high school diploma or its equivalent, provide a statement of financial support, and submit satisfactory TOEFL, SAT, or ACT scores as determined by the Admissions Office. As an *Abitur* student, you will be advised by the Academic Advising Center during their enrollment at UTEP.

Servicemembers Opportunity Colleges (SOC)

The University of Texas at El Paso participates in the Servicemembers Opportunity Colleges' Concurrent Admissions Program. If you plan to join the military and want to attend UTEP when your service is complete, you may apply for admission prior to enlistment and designate UTEP as your home institution. Credit earned while in the military can be transferred to UTEP and you can work closely with advisors to develop your degree plan prior to your arrival on campus. Contact the Admissions Office for additional information.

Academic Fresh Start Program

An applicant for undergraduate admission who is a Texas resident may choose to enter UTEP under the Academic Fresh Start statute, *Texas Education Code*, §51.931, by submitting the Academic Fresh Start Acknowledgement Form to the Office of Admissions and Recruitment. Once the request has been processed, the institution will not consider any credit or grades taken 10 or more years prior to enrollment in the admissions decision. Courses excluded for Academic Fresh Start purposes are not:

- Considered as transfer credit
- Counted toward a degree
- Counted in the cumulative GPA calculation
- Used to remove any existing high school deficiencies
- Used to meet prerequisite requirements

For returning students, these courses and grades will remain part of your official UTEP academic record, and notation will be made on your transcript indicating the portion of the record that is to be included in computing requirements for graduation.

READMISSION

You must apply for readmission to the University if you meet any one of the following criteria:

- Former students who last attended UTEP prior to January 1, 1984
- Junior Scholars who have graduated from high school and wish to continue at UTEP as regular students
- Summer Guest students who want to transfer to UTEP
- Students seeking a second bachelor's degree

If you have attended other colleges or universities since last attending UTEP, you must submit complete, official transcripts in order to evaluate your course work and make it part of the complete undergraduate academic record.

Readmission of Student Who Withdraws to Perform Active Military Service

- (a) This section applies to you if you withdraw from the University to perform active military service as a member of the United States armed forces or the Texas National Guard.
- (b) If you request readmission within one year after being released from active military service, you will be readmitted to the University if you are eligible to register for classes. Upon readmission, the University shall:
 - (1) Provide you any financial assistance previously provided before your withdrawal, if you meet current eligibility requirements for the assistance, other than any requirement directly affected by your service, such as continuous enrollment or another similar timing requirement; and
 - (2) Allow you the same academic status that you had before the withdrawal, including any course credit awarded
- (c) The University may adopt rules requiring reasonable proof from you regarding the fact and duration of your military service.

CREDIT BY EXAMINATION

We recognize academic achievement acquired outside the classroom and are pleased to offer university credit for the courses listed below based on successful performance on the International Baccalaureate, College Entrance Examination Board's Advanced Placement (AP) Examinations, College Level Examination Program (CLEP) tests, SAT II Subject Tests, DSST (DANTES Subject Standardized Tests), and departmental examinations. These tests, cut-off scores, and testing policies have been approved by the academic colleges and departments teaching the respective courses. There may be other areas in which departmental examinations may be given for credit; contact the appropriate academic departments for the availability of such examinations.

Credit by Examination Policies

1. Credit by examination is available to our enrolled and formerly enrolled UTEP students unless credit has been earned for a higher level course in that subject area or a grade other than "W" has been received in the course.
2. Official score reports must be sent directly to the Admissions Office from the testing agency.
3. Departmental test results and recommendations, with the approval of the department chair and the academic dean, must be sent directly to the Records Office.
4. If you have received credit by examination at another institution and have completed more advanced work in that subject area with a grade of "C" or better, credit will be allowed based on the basis of the other institution's transcript. Otherwise, official score reports must be submitted directly to the Admissions Office from the testing agency.
5. Credit earned by examination satisfies degree requirements in the same way as credit earned by classroom instruction. There is no limit to the amount of credit that may be earned by examination, and credit by examination can be used to meet prerequisites for higher-level courses.
6. Credit earned by examination does not fulfill the UTEP degree requirement for completion of 30 semester hours in residence.
7. Credit earned by examination is recorded as a grade of "CR". It is included in hours earned, but not in the grade point average calculation.
 8. Credit by examination is recorded on the official UTEP academic record after your first enrollment at the University.
9. Changes in credit by examination policies, tests, and cut-off scores become effective the semester after the changes are approved.

| Examination | Minimum Score | Hours Earned | UTEP Credit | |
|---|---------------|--------------|-------------|------------------------------------|
| Advanced Placement Examinations (AP) | | | | |
| Art: Studio Art-Drawing | 3 | 6 | ARTF | 1301, 1302 |
| Art: Studio Art-2D Design | 3 | 6 | ARTF | 1301, 1302 |
| Art: Studio Art-3D Design | 3 | 6 | ARTF | 1301, 1302 |
| Biology | 3 | 6 | BIOL | 1305, 1306 |
| Calculus AB | 3 | 4 | MATH | 1411 |
| Calculus BC | 3 | 7 | MATH | 1411, 1312 |
| Chemistry | 3 | 6 | CHEM | 1305, 1306 |
| Computer Science A | 3 | 4 | CS | 1401 |
| Computer Science AB | 3 | 4 | CS | 1401 |
| Economics: Microeconomics | 3 | 3 | ECON | 2304 |
| Economics: Macroeconomics | 3 | 3 | ECON | 2303 |
| English Language and Composition | 3 | 6 | ENGL | 1311, 1312 |
| English Literature and Composition | 3 | 6 | ENGL | 1311, 1312 |
| Environmental Sciences | 3 | 3 | ESCI | 1301-1101 |
| European History | 3 | 6 | HIST | 6 hrs elective |
| French Language | 3 | 12 | FREN | 1301, 1302, 2301, 2302 |
| French Language | 4 | 15 | FREN | 1301, 1302, 2301, 2302, 3357 |
| French Language | 5 | 18 | FREN | 1301, 1302, 2301, 2302, 3355, 3357 |
| French Literature | 3 | 12 | FREN | 1301, 1302, 2301, 2302 |
| French Literature | 4 | 15 | FREN | 1301, 1302, 2301, 2302, 3301 |
| French Literature | 5 | 18 | FREN | 1301, 1302, 2301, 2302, 3301, 3357 |
| German Language | 3 | 12 | GERM | 1301, 1302, 2301, 2302 |
| Government & Politics: Comparative | 3 | 3 | POLS | 3 hrs elective |
| Government & Politics: United States | 3 | 3 | POLS | 3210 |
| History of Art | 3 | 3 | ARTH | 1300 |
| Human Geography | 3 | 3 | GEOG | 1310 |
| Latin Literature | 3 | 14 | LATN | 1401, 1402, 2301, 2302 |
| Latin: Vergil | 3 | 14 | LATN | 1401, 1402, 2301, 2302 |
| Music Theory | 3 | 3 | MUST | 1311 |
| Physics B | 3 | 8 | PHYS | 1403, 1404 |
| Physics C – Mechanics | 3 | 4 | PHYS | 2420 |
| Physics C – Electricity & Magnetism | 3 | 4 | PHYS | 2421 |

| PHYSICS - ELECTRICITY & MAGNETISM | 3 | 7 | PHYS | 4741 |
|-----------------------------------|---|----|------|------------------------------------|
| Psychology | 3 | 3 | PSYC | 1301 |
| Spanish Language | 3 | 12 | SPAN | 1301, 1302, 2301, 2302 |
| Spanish Language | 4 | 15 | SPAN | 1301, 1302, 2301, 2302, 3355 |
| Spanish Language | 5 | 18 | SPAN | 1301, 1302, 2301, 2302, 3355, 3357 |
| Spanish Literature | 3 | 12 | SPAN | 1301, 1302, 2301, 2302 |
| Spanish Literature | 4 | 15 | SPAN | 1301, 1302, 2301, 2302, 3357 |
| Spanish Literature | 5 | 18 | SPAN | 1301, 1302, 2301, 2302, 3357, 3300 |
| Statistics | 3 | 3 | STAT | 2380 |
| World History | 3 | 6 | HIST | 2301, 2302 |

| SAT II Subject Tests | | | | |
|--|-----------------------|-----|------|----------------|
| Biology E/M | 550 | 3 | BIOL | 1305 |
| Chemistry | 550 | 3 | CHEM | 1305 |
| French | 550 | 6 | FREN | 1301, 1302 |
| French Listening | 550 | 6 | FREN | 1301, 1302 |
| German | 550 | 6 | GERM | 1301, 1302 |
| German Listening | 550 | 6 | GERM | 1301, 1302 |
| Literature | 550 | 3 | ENGL | 3 hrs elective |
| Mathematics Level 2 | 550 | 5 | MATH | 1508 |
| Physics | 550 | 3 | PHYS | 3 hrs elective |
| Spanish | 550 | 6 | SPAN | 1301, 1302 |
| Spanish Listening | 550 | 6 | SPAN | 1301, 1302 |
| U.S. History | 550 | 3 | HIST | 3 hrs elective |
| World History | 550 | 3 | HIST | 3 hrs elective |
| CLEP Examinations | | | | |
| American Government | 50 | 3 | POLS | 2310 |
| American Literature | 50 | 3 | ENGL | 3 hrs elective |
| Analyzing and Interpret Literature | 50 | 3 | ENGL | 3 hrs elective |
| Biology | 50 | 6 | BIOL | 1305, 1306 |
| Calculus | 50 | 4 | MATH | 1411 |
| Chemistry | 50 | 3 | CHEM | 1305 |
| College Algebra | 50 | 3 | MATH | 3 hrs elective |
| College Algebra-Trig. (thru 6/06) | 50 | 3 | MATH | 3 hrs elective |
| English Composition (without essay) | 50 | 3 | ENGL | 3 hrs elective |
| English Literature | 50 | 3 | ENGL | 3 hrs elective |
| French Language (1 & 2) | 50 | 6 | FREN | 1301, 1302 |
| Freshman Col Composition | 52 and approved essay | 3-6 | ENGL | 1311 |
| (Students who score 72 or higher may submit a research paper to the Director of Freshman Composition for possible ENGL 1312 credit.) | | | | |
| German Language (1 & 2) | 50 | 6 | GERM | 1301, 1302 |
| Human Growth and Development | 50 | 3 | PSYC | 2310 |
| Humanities | 50 | 3 | HUMN | 3 hrs elective |
| Info Systems and Computer Appl | 50 | 3 | CIS | 2320 |
| Intro to Educational Psychology | 50 | 3 | EDPC | 3 hrs elective |
| Introductory Business Law | 50 | 3 | BLAW | 3 hrs elective |
| Introductory Psychology | 50 | 3 | PSYC | 1301 |
| Introductory Sociology | 50 | 3 | SOCI | 1301 |
| Natural Sciences | 50 | 3 | GSCI | 3 hrs elective |
| Pre-calculus | 50 | 5 | MATH | 1508 |
| Principles of Accounting | 50 | 6 | ACCT | 2301, 2302 |
| Principles of Macroeconomics | 50 | 3 | ECON | 2303 |
| Principles of Management | 50 | 3 | MGMT | 3303 |
| Principles of Marketing | 50 | 3 | MKT | 3300 |
| Principles of Microeconomics | 50 | 3 | ECON | 2304 |
| Social Sciences and History | 50 | 3 | SOSC | 3 hrs elective |
| Spanish Language (1 & 2) | 50 | 6 | SPAN | 1301, 1302 |
| Trigonometry (thru 6/06) | 50 | 3 | MATH | 3 hrs elective |
| U.S. History I | 50 | 3 | HIST | 1301 |
| U.S. History II | 50 | 3 | HIST | 1302 |
| Western Civilization I | 50 | 3 | HIST | 2301 |
| Western Civilization II | 50 | 3 | HIST | 2302 |

| International Baccalaureate | | | | |
|--|---|---|------|------------------------|
| The University grants 24 semester hours credit for completion of the International Baccalaureate Diploma Program. Credit is also granted for successful completion of the IB courses listed below. | | | | |
| Biology (SL*) | 4 | 8 | BIOL | 1303, 1103, 1304, 1104 |
| Biology (HL*) | 4 | 8 | BIOL | 1305, 1107, 1306, 1108 |
| Business & Management | 4 | 3 | BUSN | 3 hrs elective |
| Chemistry (SL) | 4 | 8 | CHEM | 1407, 1408 |
| Chemistry (HL) | 4 | 8 | CHEM | 1305, 1105, 1306, 1106 |
| Computer Science | 4 | 3 | CS | 1310 |
| Design Technology (SL/HL) | 4 | 3 | GSCI | 13CR ** |
| Economics (SL) | 4 | 3 | ECON | 2303 |
| Economics (HL) | 4 | 3 | ECON | 2303, 2304 |
| English | | | | |
| Language A1 or A2 (SL/HL) | 4 | 6 | ENGL | 1311, 23CR |
| Extended Essay | 4 | 3 | ENGL | 1312 |
| Environmental Systems | 4 | 4 | ESCI | 1301, 1101 |
| Film | 4 | 3 | THEA | 1390 |
| Geography | 4 | 3 | GEOG | 1310 |
| Greek, Classical (SL) | 4 | 3 | LING | 2303 |
| Greek, Classical (HL) | 4 | 3 | LING | 2304 |
| History | | | | |
| Africa | 4 | 3 | HIST | 23CR |
| Americas | 4 | 3 | HIST | 23CR |
| E and SE Asia & Oceania | 4 | 3 | HIST | 23CR |
| Europe | 4 | 3 | HIST | 23CR |
| South Asia & Middle East | 4 | 3 | HIST | 23CR |

| | | | | |
|---------------------------------------|---|----|------|------------------------------|
| Islamic History | 4 | 3 | HIST | 23CR |
| Information Technology/Global Society | 4 | 3 | UNIV | 2350 |
| Latin (SL) | 4 | 3 | LATN | 2303 |
| Latin (HL) | 4 | 6 | LATN | 2304, 2301 |
| Mathematics (HL) | 4 | 4 | MATH | 1411 |
| Further Mathematics (SL) | 4 | 3 | MATH | 1312 |
| Mathematical Methods (SL) | 4 | 5 | MATH | 1508 |
| Mathematical Studies (SL) | 4 | 3 | MATH | 1320 |
| Modern Languages | | | | |
| Language A1 or A2 (SL) | | | | |
| French | 4 | 12 | FREN | 1301, 1302, 2301, 2302 |
| German | 4 | 12 | GERM | 1301, 1302, 2301, 2302 |
| Spanish | 4 | 12 | SPAN | 1301, 1302, 2301, 2302 |
| Other Languages | 4 | 6 | LING | 13CR, 23CR |
| Language A1 or A2 (HL) | | | | |
| French | 4 | 15 | FREN | 1301, 1302, 2301, 2302, 33CR |
| German | 4 | 15 | GERM | 1301, 1302, 2301, 2302, 33CR |
| Spanish | 4 | 15 | SPAN | 1301, 1302, 2301, 2302, 33CR |
| Other Languages | 4 | 9 | LING | 13CR, 23CR, 33CR |
| Language B (SL) | | | | |
| French | 4 | 6 | FREN | 1301, 1302 |
| German | 4 | 6 | GERM | 1301, 1302 |
| Spanish | 4 | 6 | SPAN | 1301, 1302 |
| Other Languages | 4 | 3 | LING | LING 13CR |
| Language B (HL) | | | | |
| French | 4 | 12 | FREN | 1301, 1302, 2301, 2302 |
| German | 4 | 12 | GERM | 1301, 1302, 2301, 2302 |
| Spanish | 4 | 12 | SPAN | 1301, 1302, 2301, 2302 |
| Other Languages | 4 | 6 | LING | 13CR, 23CR |
| Language AB | | | | |
| French | 4 | 3 | FREN | 1301 |
| German | 4 | 3 | GERM | 1301 |
| Spanish | 4 | 3 | SPAN | 1301 |
| Other Languages | 4 | 3 | LING | 1301 |
| Music (SL/HL) | 4 | 3 | MUSL | 1324 |
| Philosophy (SL/HL) | 4 | 3 | PHIL | 1301 |
| Psychology (SL/HL) | 4 | 3 | PSYC | 1301 |
| Physics (SL) | 4 | 4 | PHYS | 1403 |
| Physics (HL) | 4 | 4 | PHYS | 1404 |
| Social & Cultural Anthropology | 4 | 3 | ANTH | 1302 |
| Theatre Arts (SL/HL) | 4 | 3 | THEA | 1313 |
| Visual Arts | 4 | 3 | ART | 1300 |

*SL = Standard Level; HL = Higher Level ** CR = Elective Credit

| DSST (DANTES Subject Standardized Tests) | | | | |
|---|------------------|--------|------|----------------|
| Art of the Western World | 48 | 3 | ART | 1300 |
| Astronomy | 48 | 3 | ASTR | 3 hrs elective |
| Business Law II | 52 | 3 | BLAW | 3301 |
| Business Mathematics | 48 | 3 | MATH | 3 hrs elective |
| Civil War and Reconstruction | 47 | 3 | HIST | 3 hrs elective |
| Cntmp Western Europe 1946-1990 | 45 | 3 | HIST | 3 hrs elective |
| Criminal Justice | 49 | 3 | CRJ | 3 hrs elective |
| Drug and Alcohol Abuse | 49 | 3 | SOWK | 3 hrs elective |
| Environment and Humanity | 46 | 3 | ESCI | 3 hrs elective |
| Ethics in America | 46 | 3 | PHIL | 3 hrs elective |
| Foundations of Education | 46 | 3 | EDUC | 3 hrs elective |
| Fund of College Algebra | 47 | 3 | MATH | 3 hrs elective |
| Fundamentals of Counseling | 45 | 3 | PSYC | 3 hrs elective |
| General Anthropology | 47 | 3 | ANTH | 3 hrs elective |
| Here's to Your Health | 48 | 3 | HSCI | 3 hrs elective |
| History of the Viet Nam War | 49 | 3 | HIST | 3 hrs elective |
| Human/Cultural Geography | 48 | 3 | GEOG | 1310 |
| Human Resource Mgmt. | 48 | 3 | MGMT | 3311 |
| Introduction to Business | 46 | 3 | BUSN | 3 hrs elective |
| Intro to Computing | 45 | 3 | CIS | 3 hrs elective |
| Intro to Modern Middle East | 47 | 3 | HUMN | 3 hrs elective |
| Intro to World Religions | 49 | 3 | RS | 1301 |
| Life Span Devel Psychology | 46 | 3 | PSYC | 2310 |
| Mgmt. Information Systems | 46 | 3 | CIS | 3 hrs elective |
| Money and Banking | 48 | 3 | ECON | 3320 |
| Organizational Behavior | 48 | 3 | MGMT | 3304 |
| Personal Finance | 46 | 3 | FIN | 3 hrs elective |
| Principles of Finance | 47 | 3 | FIN | 3310 |
| Prin. of Financial Accounting | 48 | 3 | ACCT | 2301 |
| Princ Of Physical Geology | 50 | 3 | GEOL | 1301 |
| Princ Of Physical Science I | 47 | 3 | PSCI | 3 hrs elective |
| Principles of Statistics | 48 | 3 | STAT | 2380 |
| Principles of Supervision | 46 | 3 | MGMT | 3 hrs elective |
| Rise and Fall of Soviet Union | 45 | 3 | HIST | 3 hrs elective |
| Technical Writing | 47 | 3 | ENGL | 3357 |
| UTEP Departmental Examinations | | | | |
| Art | Portfolio review | 6 | ARTF | 1301, 1302 |
| General Chemistry | C | 3 | CHEM | 1305 |
| General Chemistry | C | 3 | CHEM | 1306 |
| College French | 35 | varies | FREN | Varies* |
| College German | 19 | varies | GERM | Varies* |
| Nutrition | 70 | 3 | HSCI | 2302 |
| College Spanish | varies | varies | SPAN | Varies* |

*If the course into which the student places is completed with a "C" or better, credit is given for all prerequisite courses.

Credit for Non-Traditional Educational Experiences

Credit for non-traditional educational experiences is awarded based on American Council on Education (ACE) recommendations published in the National Guide to Educational Credit for Training Programs and the Guide to the Evaluation of Educational Experiences in the Armed Services when such recommendations are similar to courses offered at UTEP. Direct course equivalents are given for lower division ACE recommendations where applicable. Lower-division or advanced elective credit will be given for other ACE recommendations where appropriate. Your academic dean or department will determine the applicability of elective credit to your degree plan. Official records verifying course completion from the appropriate agency or from the ACE Registry of Credit Recommendations must be submitted to the Admissions Office. If an Army/American Council on Education Registry Transcript System (AARTS) or Navy Sailor/Marine American Council on Education Registry Transcript (SMART) transcript is not available to verify your military experience, official copies of the

certificates of completion must be submitted.

Go Centers

Go Centers are a Texas Higher Education Coordinating Board initiative for prospective college students to increase postsecondary admission and enrollment. Their purpose is to raise awareness among students and their families about the benefits of higher education and how to be academically and financially prepared, and they serve as one of the points of coordination between the College for Texans efforts and local schools. Go Centers are located in local area high schools and staffed by UTEP Students with the assistance of high school counselors. The Centers have information regarding admission to colleges and universities, financial aid, scholarships, and other materials necessary to help foster the idea that higher education is attainable, affordable, and can be achieved.

Financial Aid

204 Academic Services Building

Phone: (915) 747-5204

Fax (915) 747-5631

financial@utep.edu

www.utep.edu/financialaid

DIRECTOR: Raul H. Lerma

The Office of Student Financial Aid assists qualified students to meet the costs of college education. No person is excluded from participating on the basis of race, color, national origin, religion, sex, age, veteran status, disability, or sexual orientation. We welcome inquiries by mail, e-mail, telephone and visits. Appropriate forms are available at El Paso area high schools in the counselors' offices and at our office.

FINANCIAL AID POLICY

The amount and type of financial assistance provided through educational loans, grants, and college work-study follow existing federal, state, and local regulations and policies governing financial aid programs. Priority is given to our undergraduate students with documented need, who meet academic eligibility criteria, who are enrolled on a full-time basis (12 hours or more), and whose applications are received by the priority date of March 15.

Financial aid awards are based on financial need and academic merit. To apply, you are required to submit the Free Application for Federal Student Aid (FAFSA) to determine your financial need for the aid period. The cost of attending the University is your student budget. Your financial resources, combined with those of your parents if you depend on them, are called your student/family contribution. Financial assistance for you includes all non-Title IV Scholarships, grants, loans, or other assistance not received under Title IV, for example Veterans Educational Benefits. The difference between your student budget, family contribution, and financial assistance determines your financial need. For a detailed breakdown of direct and indirect educational costs, students should contact the Financial Aid Office for written material.

APPLICATION PROCESS

March 15 is the application submission priority date for each school year. All forms and required documents are due and must be completely processed by the Office of Student Financial Aid by this date for you to be considered for the maximum aid available. You should be aware that the processing of financial aid documents may take at least four weeks. Late applications will be considered on the basis of available funds.

Information that we obtain from your need analysis is used to determine your financial need and the types of awards for which you are qualified. Awards fall into two categories: (1) gift aid, which includes grants and (2) self-help funds, which include the College Work Study Program and long-term educational loans. The amount of aid awarded to you, combined with the student's resources (your student/family contribution), cannot exceed your student budget.

Once documented need is established, the Office of Student Financial Aid will make every effort to meet your need. The financial aid award will be packaged from a variety of sources and will be based on the financial need, program eligibility, and availability of funds. In some instances, your total award may be less than your documented need due to fund limitations, program eligibility requirements, or other factors.

If you wish to apply for financial assistance for the spring semester, you will be considered based on the availability of funds after we receive your financial aid documents.

You should refer to the Tuition and Fees Emergency Loan section of this catalog for non-need emergency loan fund programs.

If you are subject to Selective Service registration, you are required to file a statement indicating whether you have registered for or are exempt from service registration, in order to be eligible to apply for federal or state financial aid.

SATISFACTORY ACADEMIC PROGRESS (SAP) CRITERIA

The University of Texas at El Paso is mandated to establish minimum standards of "satisfactory progress" for our students receiving financial assistance. This requirement applies to your entire academic history, whether financial aid was received or not. It also applies to all types of aid: grants, loans, and work-study. The standards for determining progress include three measurements: grade point average, measurable progress, and accumulated hours, as described below.

Grade Point Average

Grade point average (GPA) is the quantitative measurement used for academic work at this University. For financial aid purposes, you must maintain at least a 2.0 GPA as an undergraduate student, 2.5 as a candidate for certificate/endorsement, and 3.0 as a graduate student.

Measurable Progress

Measurable progress is the completion of 75% of attempted hours each academic year. An academic year is defined as two long semesters plus the summer session. Should you attempt to repeat courses to improve your GPA, we caution you that in some cases, repeat coursework may remain on your record but are NOT counted toward total hours.

you attempt to repeat courses to improve your GPA, we caution you that, in some cases, previously earned hours remain on your record but are NOT counted toward total hours earned and therefore could affect their measurable progress. In addition, the following grades do not contribute to credit hours completed:

F-Failure N-No Grade P/F-Pass/Fail

I-Incomplete P-In Progress W-Withdrawal U-Unsatisfactory

Accumulated Hours

Our students receiving aid at UTEP are allowed 170 attempted undergraduate hours to complete a baccalaureate degree. As a Master's candidate, you are allowed 45 attempted and are allowed 80 attempted hours as a Doctoral candidate to complete your degree. Transfer hours, as well as all UTEP hours, are used in determining attempted hours. You are responsible for determining the courses in which you should enroll to comply with this requirement.

Special Consideration

1. **Non-Degree Seeking** - To be considered for financial aid, you must be enrolled in a degree granting program.
2. As a student enrolled in an elementary or secondary teacher certification program required by a state you may only apply for a Stafford Loan.
3. **Second Degree Seeking** - As a student who is enrolled in a program which leads to a second undergraduate or graduate degree, you are eligible to apply for state grants and a Stafford Loan and is subject to satisfactory progress requirements.
4. **Transfer Students** - Financial aid eligibility of our transfer students is identical to that of UTEP students with comparable credit hours. All transfer hours accepted by the Admissions Office will be added to UTEP hours whether they are used in the current degree plan or not.
5. **Option II/Academic Fresh Start** - As a student who chooses Option II or Academic Fresh Start, we caution you that previous semesters in which you received financial aid affect your measurable progress.

Appeal Process

An appeal process is available to you if you are ineligible for continued aid and may have had extenuating circumstances that prevented your completion of satisfactory progress. If there are grounds for an appeal, you must submit an appeal application, a degree plan if you have completed sixty hours or more, and a typed explanation of the circumstances which brought about the ineligibility and actions that you have taken to remedy the situation, to the Office of Student Financial Aid.

An appeal is not available if you have already attempted or will reach 150% of the total number of hours required for the degree.

All documents are to be presented to a Student Financial Aid Administrator (FAA). If your appeal is denied by the FAA, it may be forwarded to the Financial Aid Internal Review (FAIR) Committee at your request. The committee meets monthly and makes its recommendations to the Director of the Office of Student Financial Aid, who will make the final decision. The appeal decision is made available within a week. If you are planning to appeal, you should be prepared to pay your own registration fees in the event that the appeal is denied or is approved after the deadline for paying registration fees.

GRANTS AND LOANS

The following summaries of financial aid are provided for your information only and are subject to legislative acts. Complete details of the programs are available through the Office of Student Financial Aid.

Grants

Pell Grant: The Federal Pell Grant Program is an aid program designed to assist our eligible students in pursuing their first undergraduate degree by providing them with a foundation of aid to help pay the cost of attending school. If you have applied for the Federal Pell Grant, you will receive a Student Aid Report (SAR) within six weeks of applying. Our undergraduate students must apply each year for the Federal Pell Grant. You must maintain satisfactory academic progress in order to remain eligible for the program.

Supplemental Educational Opportunity Grant (SEOG): The Federal SEOG is available for our students who are enrolled, in good academic standing, making satisfactory academic progress, and who demonstrate exceptional financial need. Priority will be given to you if you are enrolled full-time and observe the application submission deadlines.

Academic Competitiveness Grant (ACG)

The Academic Competitiveness Grant is a federal grant available to you during your first and second years in college. You must be a U.S. citizen, federal Pell eligible, enrolled full-time, and have completed a rigorous secondary school program of study.

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

The National SMART Grant is a federal grant available to you during your third and fourth years of college. You must be a U.S. citizen, federal Pell eligible, in your third or fourth year in four-year degree programs, enrolled full-time in eligible majors, and hold a minimum cumulative 3.0 GPA on a 4.0 scale in the program.

Leveraging Educational Assistance Partnership Program (LEAPP): This is a state-matched grant awarded based on financial need. You may be graduate or undergraduate student and must be enrolled at least part-time. It is necessary to file a separate application for this grant.

Toward Excellence, Access, and Success Grant Program (TEXAS Grant): This state program provides financial assistance to our students with demonstrated financial need who graduated from a Texas public or accredited high school in 1998 or later. You must also have completed the Recommended High School Curriculum or higher to be considered for this program. Awarding of the TEXAS Grant is dependent upon the availability of funds.

Texas Public Education Grant (TPEG): This grant provides financial assistance to our undergraduate and graduate students with financial need who are enrolled at least half-time.

Student Employment (Federal College Work-Study Program): The Federal College Work-Study Program provides jobs for you if you have documented financial need and wish to earn part of your educational expenses while going to school. Jobs cannot exceed nineteen hours per week at both on-campus and off-campus worksites and range from clerical worker to research assistant. You are paid at the prevailing minimum wage rate, as prescribed by federal law. Both graduate and undergraduate students demonstrating financial need are eligible for participation in this program as long as you are enrolled on a full-time basis.

Our international, second degree, and certification students, as well as unclassified

graduates, are not eligible for the Work-Study Program.

Loans

The Office of Student Financial Aid offers assistance to you through various long-term loan programs. If you are a first-time recipients of a long-term loan, you are required to attend Pre-Loan Counseling or Review Sessions prior to receipt of loan funds.

The long-term educational loans available through the Financial Aid Office have many repayment benefits of which you should be aware. All of these loans defer payment while you are enrolled in a course of study at least half-time. Loans may not be released and remaining loan amounts will be canceled if you drop below half-time. Repayment is made on

a monthly basis, over a period not exceeding ten (10) years. You should refer to the Financial Aid Web site for repayment information. Specific descriptions of the various loan programs are listed below.

Loan repayment begins at the end of a grace period or after you cease to enroll half-time. If payment is not made after the grace period, the loan is in default. The lending agency can then take necessary action to obtain payment to include use of a collection agency or court action. If this type of action is taken, you are required to repay the entire loan plus costs of collection.

Federal Perkins Loan: This loan requires evidence of financial need for eligibility. The interest is 5% and does not accrue while you are enrolled at least half-time. There are provisions for partial cancellation and deferral for designated public service. The Perkins Loan is dependent upon the availability of funds.

Federal Subsidized Stafford Student Loan: This loan requires evidence of financial need for eligibility and is offered through participating lending institutions. The Federal Government will pay the interest as long as you are enrolled at least half-time. Under this plan, you are responsible for selecting a bank or lending institution that participates in the Federal Family Education Loan Program. This loan is available for both undergraduate and graduate students.

Federal Unsubsidized Stafford Student Loan: Unlike the Federal Subsidized Stafford Loan, this loan does not require evidence of financial need for eligibility. In addition, you are responsible for the interest on the loan while in school.

Tuition and Fees Loans: These loans are available to you if you need assistance in meeting the costs of tuition and fees. They are available to our resident, non-resident, and international students, and documentation of need as described elsewhere in this section is not required for these loans. The loan must be repaid during the semester in which it is obtained and there is a 5% annual interest charged. You should refer to the current *Class Schedule* for availability dates. Tuition and fee loans may be applied for at: <https://loans.utep.edu>.

Emergency Book Loans: Emergency book loan funds are available to assist you if you are temporarily in need of funds for books. You are eligible as a regularly enrolled student, if you do not have an outstanding emergency loan or previous semester balance. Loans must be repaid during the semester in which the loan is obtained. There is a \$250 limit and a \$10 service charge is added to each loan. The web site is <https://loans.utep.edu>. The funds are deposited in your Miner Gold Card to be used at the Campus Bookstore.

Hazlewood Act Exemption

The Hazlewood Act exempts eligible Texas veterans and their children from the payment of tuition and fees, other than property deposit and student services fees, subject to the following provisions. This exemption does not apply to fees for services or items that are not required for general enrollment or for specific courses that you may take. Eligible veterans or children who are entitled to receive both federal and state veterans' educational benefits for the same semester can do so only if the value of the federal benefit is less than the value of your tuition and fees, less property deposit and student services fees.

To be eligible to receive the Hazlewood Act Exemption as a veteran, you must demonstrate that you were a resident of Texas at the time of entry into the service; were classified as a Texas resident for tuition purposes for the semester for which the exemption was requested; were honorably discharged from the service; have no federal veterans' educational benefits, or if so, the value of the benefits is less than the value of tuition and fees, less property deposit and student services fees, for the relevant term; are not in default on an educational loan made or guaranteed by the State of Texas and are not in default on a federal loan if that default is the reason that you cannot use your federal veterans' benefits; have attempted fewer than 150 hours, and have followed the application procedures required by these provisions. In addition, you must have served in the Armed Forces or in certain auxiliary services during the Spanish-American War, World War I, World War II (except those who were discharged because they were over the age of 38 or because of a personal request), the Korean War, or served at least 181 days during the Cold War, Vietnam, Grenada and Lebanon, Panama, Persian Gulf War, the National Emergency by Reason of Certain Terrorist Attacks, and any future national emergency declared by law.

As a child, you are eligible for the Hazlewood Act Exemption if you are classified as a resident of Texas for the semester for which the exemption is requested and you must demonstrate that you are a dependent of a member of the U.S. Armed Forces who was a resident of Texas upon entry into the service and who died while in the service, is missing in action, whose death was caused by service-connected injuries, or who became totally disabled for purposes of employability as a result of a service-related injury, and have no federal veterans' educational benefits based on the death or disability of a veteran parent.

To obtain this exemption as a veteran, you must complete the Hazlewood Act Exemption Application, available in the Financial Aid Office. A copy of your Certificate of Release or Discharge from Active Duty (DD-214) and proof of current status regarding eligibility for federal veterans' educational benefits must be submitted. As a child applying for the exemption, you must submit the application, along with proof regarding eligibility for federal benefits on the basis of the parent's service-related death or disability, and documentation that the parent was a resident of Texas when he or she entered the service. It is highly recommended that you complete the Free Application for Federal Student Aid (FAFSA) to determine Pell eligibility, obtain student loan history, and expedite the awarding process. For complete information, contact the Financial Aid Office.

UNDERGRADUATE SCHOLARSHIPS

Academic Services Building, Room 202

El Paso, Texas 79968

(915) 747-5478

Fax (915) 747-5089

schp@utep.edu

DIRECTOR: Elizabeth S. Justice

The University of Texas at El Paso has an excellent scholarship program designed to attract and retain bright scholars. These competitive scholarships are awarded for academic merit and are intended to recognize you for outstanding academic accomplishments and future potential. Academic scholarships are offered to our qualified first-year students, college transfers, and currently enrolled undergraduate and graduate UTEP students. The awards are made possible through the generosity of foundations, corporations, community groups, and philanthropic individuals. Scholarships vary in amount and type of award and are given to the most qualified applicants.

Scholarship Requirements

If you are a high school student, you are considered for awards based on your high school cumulative grade point average (GPA), class rank, SAT or ACT scores and, to a lesser degree, extracurricular achievements. If you are currently enrolled, have transferred from another university, or are a graduate student at UTEP, you must have a 3.0 cumulative GPA and must be enrolled full-time to be considered for a scholarship. As an undergraduate student, you must submit a statement of educational goals and objectives (minimum of 250 words) along with your application. As first-year and transfer student, you must also submit an academic transcript with your scholarship application. If you are a first-year student and have followed the recommended high school curriculum, you should make sure that your transcripts are noted as such, since this could qualify you for additional funding. A large number of scholarships require you to demonstrate financial need as determined by completing the Free Applications for Federal Student Aid (FAFSA).

Priority Deadlines

All of our students complete one application, which is used to award all institutional scholarships. Complete applications must be received by the Office of Scholarships by the dates below:

November 1 Priority Deadline (high school seniors only)

March 1 Second Round (high school seniors only)

June 1 Current UTEP and transfer students

Late applications are accepted and kept on file. They are considered on the basis of available funds in all categories awarded. A non-awarded or late scholarship application is kept on file as long as you enrolls full-time each fall and spring semester and maintain a minimum 3.0 cumulative GPA.

General Scholarships

Many of the general scholarships have specific requirements such as classification, financial need, major, or Texas residency. You normally receives one academic scholarship; however, you may also be eligible for outside scholarships, service awards, and/or research awards. You may also be eligible for aid from state and federal need-based programs.

Scholarship Programs

The following programs include the University's most prestigious awards. Most are reserved for our first-year students with outstanding academic credentials.

PRESIDENTIAL SCHOLAR PROGRAMS:

PRESIDENTIAL EXCELLENCE

\$14,000 awards over a four-year period (\$3,500 per year)

Initial eligibility (*Student must meet at least two of the first three requirements*):

High school average of 96 on a 100-point scale

Top 3% of high school graduating class

1220+ SAT (combined math and reading only) or 27+ ACT test scores

Evidence of exceptional leadership abilities and achievements

Renewal requirements:

3.25 cumulative GPA the first year

3.50 cumulative GPA each year thereafter

Full-time enrollment at UTEP during fall and spring semesters

Completion of at least 30 credit hours over 12 months

PRESIDENTIAL

\$10,000 awards over a four-year period (\$2,500 per year)

Initial eligibility: Same as Presidential Excellence (Demonstration of leadership abilities and achievements is not required)

Renewal requirements: Same as Presidential Excellence

ACADEMIC SCHOLARSHIPS:

\$4,000 awards over a four-year period (\$1,000 per year)

Initial eligibility:

High school average of 93 on a 100-point scale

Top 5% of high school graduating class

1140+ SAT (combined math and reading only) or 25+ ACT test scores

Renewal requirements:

3.0 cumulative GPA

Full-time enrollment at UTEP during fall and spring semester

MERIT SCHOLARSHIPS:

\$3,000 awards over a four-year period (\$750 per year)

Initial eligibility:

High school average of 90 on a 100-point scale

Top 10% of high school graduating class

1030+ SAT (combined math and reading only) or 22+ ACT test scores

Renewal requirements:

3.0 cumulative GPA

Full-time enrollment at UTEP during fall and spring semester

EPCC TRANSFER SCHOLARSHIPS:

\$2,000 awards over a two-year period (\$1,000 per year)

Initial eligibility:

Students transferring to UTEP from EPCC during the upcoming fall semester or the prior spring semester are eligible to apply

Minimum 3.0 cumulative GPA

Minimum 3.0 cumulative GPA

Minimum of 45 transferable credit hours from EPCC at time of transfer

Renewal requirements:

3.0 cumulative GPA

Full-time enrollment at UTEP during fall and spring semester

Athletic Aid and Academic Scholarships

If you are an academic scholarship recipient who participates in intercollegiate athletics, you must comply with NCAA governing rules, which may limit dollar amounts and methods of disbursement. Please contact the Athletics Compliance Office at (915) 747-8607 for additional information.

Service Awards

Service awards are scholarships based on participation in university organizations including music groups, athletic teams, and others. To apply for these awards, contact the sponsoring department.

Non-Resident Waivers

If you are a non-resident and you receive a competitive scholarship of \$1,000 or more per year, you qualify for resident tuition rates for each semester in which the scholarship is awarded to you. To qualify for the waiver, you must have competed with Texas residents for the scholarship and the award must be administered by the Office of Scholarships.

Renewal Information

Renewal letters are mailed in June after spring grades are posted. Please note the following:

It is your responsibility to know whether or not scholarship requirements have been met.

It is your responsibility to know whether summer school enrollment is required to complete hour requirements

Scholarship funds will not be applied toward tuition and fees until the conditions of a conditional renewal, pending summer grades, are met.

Appeal Process

If you do not meet necessary scholarship requirements for renewal, you may submit an appeal to the Undergraduate Scholarship Committee. The required forms are available at the Office of Scholarships and must be submitted by the specified deadline. You may only appeal once for any reason of non-renewal, including GPA and credit hours.

Graduate Scholarship Information

Graduate scholarships are merit-based awards available from the UTEP Graduate School, academic departments, and external sources. As a graduate student, you are also encouraged to access databases that are available through the Internet in order to identify scholarship and fellowship opportunities. For more information, you should

contact the Graduate School at (915) 747-5491.

International Students-Scholarships

Our international students are encouraged to submit an application to the Office of Scholarships for scholarship consideration. For additional scholarship opportunities, you should contact the Office of International Programs.

Additional resources may be available through corporate and organizational scholarships. For additional information, please visit the Office of Scholarships website at <https://www.utep.edu/scholarships>.

Contact Information

Office of Scholarships

Academic Services Building, Room 202

El Paso, Texas 79968

(915) 747-5478

Fax (915) 747-5089

schp@utep.edu

Student Assessment and Testing

127 Academic Advising Center Bldg.

Phone: (915) 747-5009

Fax: (915) 747-8013

Email: testing@utep.edu

Web: academics.utep.edu/testing

Test Registration: testing.utep.edu

DIRECTOR: Edward F. Gerber

The Student Assessment and Testing Office serves as the test administration center for college admissions, assessment and placement tests, and several state and national professional and certification test programs. The office also provides proctoring services for correspondence tests along with information about testing services for various state-wide and national testing programs.

Our prospective and current UTEP students can also save time and money by taking advantage of credit-by-examination programs offered, which include the College-Level Examination Program (CLEP) and DANTES Subject Standardized Tests. The UTEP credit-by-examination testing policy is described in the Admissions section of the catalog.

As a student with a disability, you should inquire about special testing accommodations. Arrangements can be made through the Disabled Student Services Office.

ADMISSIONS TESTS

The Student Assessment and Testing Office administers the ACT (American College Test), TOEFL (Test of English as a Foreign Language), PAA (Prueba de Aptitud Académica) and the MAT (Miller Analogies Test). Scores from ACT, TOEFL, and PAA institutional examinations can only be used for admission to UTEP. Please refer to the Admission section of this catalog and to the Graduate Catalog for information about admission test score requirements. Contact the Student Assessment and Testing Office for information on admission test dates and registration procedures.

TEXAS SUCCESS INITIATIVE (TSI)

As an entering student, you must satisfy the Texas Success Initiative (TSI) assessment requirement before enrolling in classes at UTEP. This can be done by taking the ACCUPLACER, the Texas Higher Education Assessment Test (THEA), or the Quick THEA Test. For additional information about the Texas Success Initiative, refer to the Academic Advising Center section of this catalog.

ACCUPLACER PLACEMENT TESTS (MATH, ENGLISH, READING)

All of our entering students who do not have college-level credit in math, English, or reading-intensive courses must take the ACCUPLACER test for course placement in those areas. The ACCUPLACER is also used to meet the Texas Success Initiative (TSI) basic skills assessment requirement. You can meet both testing requirements by taking the ACCUPLACER, which is given by UTEP's Student Assessment and Testing Office and in most El Paso area high schools.

Transfer students who have college-level credit in math, English or reading-intensive courses may be exempt from placement testing, but you must still satisfy the TSI. The Admissions Office determines which tests must be taken or if exemptions apply.

Placement scores are subject to change, and score reports will provide the most current course placement information. ACCUPLACER math test scores expire two years after the test date if no college math credit is earned, and you must retake the math placement test. Contact the Student Assessment and Testing Office or the Academic Advising Center for current information.

TEXAS HIGHER EDUCATION ASSESSMENT (THEA)

The Texas Higher Education Assessment (THEA) or Quick THEA is used to meet teacher preparation requirements. For additional information on teacher preparation and certification requirement contact the College of Education. Contact the Student Assessment and Testing Office for information on THEA, Quick THEA test dates, and registration procedures.

SECONDARY LEVEL ENGLISH PROFICIENCY – ESOL PLACEMENT TESTS

The Secondary Level English Proficiency (SLEP) test is required if your secondary education was not in English and you took the TOEFL (and scored less than 600) or the PAA for admission. If you enroll in the ESOL Program, you are expected to complete the appropriate sequence of courses. You may retake the SLEP if you have not enrolled in an ESOL course during the 12 months following their initial testing, or with approval of the ESOL Coordinator. Contact the Student Assessment and Testing Office for information on SLEP test dates and registration procedures.

Academic Departmental Placement Tests

Departmental placement examinations are based on policies set by individual departments. These tests may be required by departments for enrollment in specific courses. They also allow you to start higher in a course sequence if you have acquired expertise in an area. You should meet with your academic advisors to determine whether departmental tests are available in specific areas and which placement tests, if any, are required. Contact the Student Assessment and Testing Office for information on placement test dates and registration procedures. The following is a list of the departmental placement tests administered by the Student Assessment and Testing Office.

| Placement Test | Score Range | Course Placement |
|---------------------------------------|-------------|----------------------------------|
| Computer Information Systems | 0-56 | CIS 2320 |
| | 57-80 | Exempt from CIS 2320 |
| French Part A | 0-34 | FREN 1301 |
| | 35-44 | FREN 1302 |
| | 45-50 | Qualify for French Part B test |
| French Part B | 0-41 | French 2301 |
| | 42-53 | French 2302 |
| | 54-60 | See Languages & Linguistics Dept |
| Nutrition Prerequisite: BIOL 1305 | 0-69 | HSCI 2302 |
| | 70-100 | Exempt from HSCI 2302 |
| Spanish (For non-native speakers). | 0-18 | SPAN 1301 |
| | 19-27 | SPAN 1302 |
| | 28-35 | SPAN 2301 |
| | 36-44 | SPAN 2302 |
| | 45-50 | Any 33xx course |
| Spanish (For native speakers). | 0-73 | SPAN 2303 |
| | 74-83 | SPAN 2304 |
| | 84-100 | Any 33xx course |
| Speech | 0-69 | COMM 1301 |
| | 70-100 | Qualify for oral test |

Note: Minimum scores required for course placement are subject to change. For current information, contact the Student Assessment and Testing Office.

128 Academic Advising Center Bldg.

Phone: (915) 747-6752

Fax (915) 747-5841

Orientation Registration:

<http://orientation.utep.edu>

DIRECTOR: Jaime Mendez

Success in college is determined not only by the quality of your academic work, but also by how quickly you make connections and fit into your new home on campus. UTEP's New Student Orientation program is designed to help you start making those connections. Sessions are offered throughout the year at no cost to you.

Registration and Records

123 Academic Services Building

Phone: (915) 747-5544

Fax (915) 747-8764

registrar@utep.edu

www.utep.edu/register

REGISTRAR: Miguel Sifuentes

The Registration and Records Office houses several functions: 1) **Scheduling** coordinates faculty and classroom assignments; 2) the **Records Office** maintains your student records and all registration transactions, including enrollment verifications, transcript requests, graduation applications, and diplomas; and 3) the **Veterans Affairs Office** serves the needs of our students who are veterans or dependents of veterans. This office is also responsible for creating and maintaining records that support certification of your status with the Veterans Administration. The office is located in the Academic Services Building, Room 127. The office telephone number is (915) 747-5342; the office e-mail is veterans@utep.edu.

For detailed information concerning registration and student academic records, consult the Academic Regulations section of this catalog under General Academic Information.



Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

University College Departments

Academic Advising Center

Academic Advising Center Bldg.

Main Phone: (915) 747-5290

Fax (915) 747-5297

advising@utep.edu

www.utep.edu/advising

DIRECTOR: Pat Caro

The Academic Advising Center helps you develop class schedules and degree plans related to your career and life goals that reflect your interests, abilities, and values. This advising model helps you take your transitions, new roles, and new responsibilities into account as you make both short- and long-term curricular and co-curricular decisions.

The Center provides advising services to:

- General Studies (undecided majors) students
- Texas Success Initiative (TSI) students
- START (provisionally admitted) students
- Programa Interamericano Estudiantil (PIE) students
- Pre-Nursing students
- UT Austin Coordinated Admission Program (UTCAP) students
- Junior Scholars
- Summer Guest students
- Transfer students
- German Abitur Program students
- College of Liberal Arts: Selected lower division Liberal Arts majors are assisted in course selection based on degree requirements
- College of Education: Our students with fewer than 45 hours interested in teaching in the elementary and middle school grades are assisted in course selection.

TEXAS SUCCESS INITIATIVE (TSI)

The Texas Success Initiative (TSI) is designed to ensure that students entering a Texas public college or university are prepared for college-level math, writing, and reading-intensive courses. As an entering student, you must take the Texas Higher Education Assessment (THEA) or an approved alternative test prior to enrolling in college-level courses at a Texas public college or university. The Texas Success Initiative replaces the Texas Academic Skills Program (TASP). If you have not successfully completed the TSI requirement, you will be advised every semester at the Academic Advising Center.

You are exempt from the TSI if you meet one of the following criteria:

1. Students with an ACT composite score of 23 with a minimum of 19 on the English and/or mathematics sections*
2. Students who score 1070 on the SAT with a minimum of 500 on the English and/or math sections*
3. Students who score 1770 on the TAAS test, with a Texas Learning Index (TLI) of 86 on the math test and 89 on the reading test*
4. Students who took the eleventh grade exit-level Texas Assessment of Knowledge and Skills (TAKS) with a minimum scale score of 2200 on the math section and/or a minimum scale score of 2200 on the English Language Arts section with a writing subsection of a 3*.
5. Students who have associate's or bachelor's degrees.
6. Students enrolled certificate programs of one year or less at public junior colleges, public technical institutes, or public state colleges.
7. Students on active duty as members of the armed forces, the Texas National Guard, or reserve forces for at least three years before enrolling.
8. Students honorably discharged, retired, or released from active duty as members of the armed forces, Texas National Guard, or reserve forces after August 1, 1990.
9. Students who are not seeking a degree or a certificate.
10. Students who transfer to UTEP from a private or accredited out-of-state institution of higher education and who have satisfactorily completed a minimum of 12 college level hours with a grade of "C" or better and have an overall 2.0 GPA

* SAT and ACT scores are valid for 5 years from the date of testing. TAAS and

TAKS tests are valid for 3 years from the date of testing.

To satisfy TSI requirements as an entering student, you may take the ACCUPLACER, which also serves as a placement test for math and English courses. You may also take the THEA, the Quick THEA, or Computer-Administered THEA. If you do not pass one or more sections of the test, you will be advised by the Academic Advising Center into an appropriate developmental course(s) according to UTEP's Developmental Education Accountability Plan.

You will complete the TSI when you have passed the reading, writing, and math sections of THEA or ACCUPLACER, or when you have received a "C" or better in a college-level writing, math, and reading-intensive course. Reading-intensive courses include HIST 1301 and 1302, POLS 2310 and 2311, SOCI 1301, and PSYC 1301.

Education majors must take and pass all sections of THEA, or Quick THEA (not ACCUPLACER), for acceptance into the teacher certification program.

Our students with disabilities should inquire about special testing accommodations.

For further information about the Texas Success Initiative, visit the Academic Advising Center, or call (915) 747-5290. For information concerning TSI testing, refer to the Student Assessment and Testing section of this catalog.

Developmental Education Program

205 Education Building

(915) 747-5693

DEVELOPMENTAL ENGLISH

DIRECTOR: Cheryl Baker Heller

LECTURERS: Berta, Blystone, Peschka, Scofield, Shaffer, Spence, Storey-Gore

The Developmental English Program prepares you for college-level work in reading and writing. The program consists of ENGL 0111, 0310, and 0311. Detailed information about each course can be found in the English Department section of this catalog.

DEVELOPMENTAL MATHEMATICS

DIRECTOR: Denise Lujan

LECTURERS: Abdelfattah, Beard, Dodge, Harvey, Johnson, McGlasson, Moschopoulos, Schoessler, Solis, Vera, Vramontes

The Developmental Mathematics Program prepares you for college-level work in mathematics. The program consists of MATH 0310 and 0311. Detailed information about each of the courses can be found in the Mathematical Sciences Department section of this catalog.

Entering Student Program (ESP)

344 Undergraduate Learning Center

Phone: (915) 747-7618

Fax (915) 747-6496

DIRECTOR: Dorothy Ward

ASSISTANT DIRECTORS: Gloria Ambler, Joanne Kropp

LEARNING COMMUNITIES COORDINATOR: Ann Gabbert

PEER LEADER COORDINATOR: Sycora Wilson James

CircLES COORDINATORS: Garcia, Loudon, Salazar, Tejada

ASSISTANT PROFESSORS: Hamed

LECTURERS: Arrieta, Burgess, Chahda-Hernandez, Chung, Clemente, Duarte, Hibbert, Kilpatrick, Kropp, Lee, Marinovic, Montelongo, Pena, Penoyer, Pinon, Spradley, Sterling

The Entering Student Program is designed to assist you with transitioning to the university and to help increase your opportunities for academic success. The Entering Student Program offers two courses—UNIV 1301 and UNIV 2350—that make up Block IX of the UTEP Core Curriculum, and we administer learning communities for both general and special populations.

As an academic unit within University College, the Entering Student Program is home to CircLES and University Studies.

CircLES (Circles of Learning for Entering Students)

Circles of Learning for Entering Students (CircLES) is a comprehensive retention program targeting our first-year and first-time transfer students in the sciences, engineering and mathematics (SEM). The goals of CircLES are to increase retention, improve academic performance, and add value to your education through the creation of an environment in which you make connections with the university, the colleges, faculty, upper-division students, and your peers. In the first year, CircLES emphasizes a learning environment in which you can be successful and begin to develop lifelong learning habits. There are four major foci within the CircLES Program, all coordinated by the Director of the Entering Student Program. Areas of focus include: 1) a mandatory college-specific orientation program in the summer prior to matriculation; 2) mandatory placement in learning communities (clusters) in the first year; 3) strong developmental advising and early intervention. Upon completion of the pre-engineering or pre-science program requirements, you may request a change of major into a selected engineering or science department.

Since its inception, the CircLES program has become recognized as a model on campus and elsewhere for creating a strong foundation for you, to help you springboard toward a successful college and (eventually) professional career.

University Studies

University Studies information and courses can be found in the Colleges and Degree Programs section right after the University Core Curriculum.

Student Success Programs

Honors House

Behind Academic Advising Center Bldg.

Phone: (915) 747-5858

honors@utep.edu

www.utep.edu/honors

DIRECTOR: Jaime Mendez

University Honors Program

The University Honors Program offers you a richer, more intense and challenging academic experience, as well as closer, more personalized contact with faculty and fellow students. Enrollment in Honors classes is limited to 20 students. You must apply to participate in the program. To be eligible as an entering first-year student, you must have graduated in the top 10% of your high school class or have obtained a minimum 1030 SAT or 22 ACT score. A cumulative 3.3 grade point average is required for our current or transfer students. As a participant, you must earn Honors credits in a minimum of one course per year and maintain a minimum 3.3 GPA to remain active in the program. The program offers three University Honors Program recognitions: the University Honors Degree, the University Honors Certificate, and the Honors Senior Thesis. Review the Academic Honors section

of this catalog for descriptions of the Honors Degree and Certificate.

Junior Scholars Program

The Junior Scholars Program is a cooperative effort between The University of Texas at El Paso and El Paso area public and private schools that allows qualified students to enroll in regular university courses while attending high school. Hours earned in this way will count as university credit and some courses may also be approved to apply toward high school graduation requirements. Program requirements for the Junior Scholars Program are as follows:

- Currently in grades 9-12
- Minimum SAT total of 1030 or ACT Composite of 22
- Completion of university required placement examinations

National Student Exchange

UTEP is a member of the National Student Exchange (NSE) Program, a consortium of more than 170 colleges and universities. The program offers you the opportunity to broaden your academic and cultural awareness in different geographic settings across the United States and its territories and Canada. You are able to enroll at a host university for up to one academic year and pay in-state tuition rates.

To qualify, you must be a full-time student at the time of the application and the semester prior to the exchange, have a minimum 2.5 cumulative GPA, and be a sophomore or junior at the time of the exchange. For additional information, log on to <http://www.nse.org>.

Student Leadership Institute

UTEP provides abundant opportunities for you to develop leadership skills. The University College coordinates the Student Leadership Institute, which is a unique year-long experience that prepares you for employment in a variety of on-campus positions. Training topics include time management, communication skills, leadership theory, UTEP history, risk-taking, and group management. The Student Leadership Institute runs from September through April.

Bachelor of Multidisciplinary Studies

University College, Dean's Office
218 Academic Services Building
(915) 747-5151

DEAN: Maggy Smith, Ph.D.

The Bachelor of Multidisciplinary Studies (BMS) degree offers you a broad interdisciplinary studies opportunity rather than a traditional specialized major. As an individualized program of study, the BMS emphasizes a broad learning experience and a wider perspective than that provided by traditional undergraduate majors. As a BMS student you will focus on an interdisciplinary theme, period, set of problems, specialization, or perspective not currently available through traditional majors and minors.

The BMS degree encourages you to select courses from the entire university course inventory, tailoring your study to your own personal and professional interests and needs. The degree provides you with a fundamental knowledge of skills necessary to competently express yourself, think creatively, solve problems, and understand the nature and function of people and the environment.

The interdisciplinary degree plan developed by you and your advisor is reviewed by a program review committee composed of academic faculty and a University College representative.

Admissions Requirements

- As a new, transfer, continuing, or returning student, you may declare your intention to work toward a BMS degree if you meet UTEP's admission requirements.
- All of our students who are admitted into the BMS program are required to meet regularly with a BMS advisor to select their concentrations and electives.

Bachelor of Multidisciplinary Studies Degree Requirements

The Bachelor of Multidisciplinary Studies degree requires a minimum of 120 semester hours, including at least 45 hours at the advanced/upper division (junior and senior) level. In addition to completing the 42 semester hour University core curriculum, you will define, in consultation with a BMS advisor, three areas of concentration totaling 45 semester hours, including a minimum of 27 hours of advanced work. Each area of concentration includes 15 hours, 9 hours of which must be advanced. The goal of the concentration is to give you an interdisciplinary foundation that satisfies your individual educational and professional goals while maintaining academic rigor and integrity. The academic areas comprising the concentrations require the approval of the faculty program review committee. Thirty-three hours of electives, 18 of which must be advanced, bring the degree total to a minimum 120 semester hours.

| Requirement | Semester Hours |
|---|-----------------------------------|
| Core Curriculum | 42 |
| (see University Core Curriculum in this catalog) | |
| Communication | 9 |
| Mathematics | 3 |
| Natural Sciences | 6-8 |
| Humanities | 3 |
| Visual and Performing Arts | 3 |
| United States History | 6 |
| Political Science | 6 |
| Social and Behavioral Science | 3 |
| University Studies | 3 |
| Concentration I | 15 (including 9 advanced) |
| Concentration II | 15 (including 9 advanced) |
| Concentration III | 15 (including 9 advanced) |
| Electives | 33 (including 18 advanced) |

TOTAL

120

In addition to completing organized courses, we recommend that you complete a capstone experience that integrates the multidisciplinary coursework: a course with a service learning component, a professional internship experience related to your concentration, or an independent research project. This involvement combines academic classroom-based activities with practical and/or research experience.



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Colleges and Degree Programs

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- [Core Curriculum](#)
- [Study Abroad and Exchange Programs](#)
- [College of Business Administration](#)
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- [College of Health Sciences](#)
- [College of Liberal Arts](#)
- [College of Science](#)
- [School of Nursing](#)
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Academic and Research Facilities

The property, buildings, or facilities owned or controlled by The University of Texas at El Paso are not open to the general public for assembly, speech, or other activities, and such uses by students and employees are subject to reasonable regulation.

No person, organization, group, association, or corporation may use property, buildings, or facilities owned or controlled by The University of Texas at El Paso 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 *Rules and Regulations* of the Board of Regents of the University of Texas System. Any authorized use must be conducted in compliance with the provisions of the Regents' *Rules and Regulations*, the rules and regulations of The University of Texas at El Paso, and applicable federal, state, and local laws and regulations.

UNIVERSITY LIBRARY

Housing over one million books and government publications, as well as close to two million microforms, the University Library strives to support the curriculum and research needs of the campus. The collection also includes access to over 24,000 journals and newspapers, and more than 445 databases providing bibliographic information, as well as selected abstracts, full text research articles and reports. The Library is classified as a Federal Depository, meaning it collects over 65% of all materials published by the Federal Government.

Housed in a six-story Bhutanese style building, with a coffee shop and both formal and casual seating for over 1,500 users, the Library is open on a daily basis to serve students, faculty, and the community. The Collaborative Learning Center, located on the 2nd floor of the Library, has 250 PC's/ Macintosh desktops and 35 Laptops available for student use. Various software packages are available, and the computers have complete internet access. Group study rooms and individual graduate study carrels are conveniently located throughout the library.

Books, journals, and audio-visual materials are easily found in "Nugget" the Library's computerized catalog. The catalog is easily searched by author, title, subject, and key word, and is accessible from computers located in the library, any computer on campus, or from a user's home computer. Most materials are available for loan to University students, faculty, and staff.

The professional staff of the Reference Department provides classroom instruction on Information Literacy, both in the Library's three computer classrooms, or in campus classrooms as requested by faculty. The Reference staff also provides assistance in locating and using the electronic resources of the Library, as well as the traditional hard copy resources. Librarians are available to provide assistance with specialized collections in all subject matters.

Special Collections, located on the 6th floor of the Library, house rare books and other unique artifacts and collections. Key among these holdings are collections in the following areas: Art, Printing, Military History, Western Fiction, Chicano Studies, Border Studies, and Oral History. The Library's manuscript and archival materials are also located in the Special Collections Department.

The Access Services Department provides automated checkout services, makes reserve materials available, and provides inter-library loan/document delivery services. M&M (Media and Microforms) houses retrospective newspapers, microforms, DVD and video tapes, and computers. Support for students and faculty, who are involved in distance education, is also provided by the library. This support includes delivery of books and other materials by surface mail, subject consultation with librarians, and access to electronic resources via the Internet.

Self-service photocopying equipment is available on all floors of the Library and a full-service Copy Center is located on the first floor.

INSTRUCTIONAL SUPPORT SERVICES

Instructional Support Services (ISS) serves as an academic resource and campus support unit for UTEP faculty, students, and staff engaged in asynchronous and distance delivered instruction. The services of the ISS office are focused on technical production, instructional design and pedagogical guidance and training-development programs for faculty engaged in the design and adaptation of instructional materials for fully online and hybrid courses at a distance as well as classes and meetings convened through interactive video conferences. Through its new Faculty Instructional Technology (F.I.T.) Lab, the ISS office provides UTEP faculty with state-of-the-art professional development and training opportunities. The F.I.T. Lab offers a well equipped self-service computer lab in which faculty can develop digital materials for instruction and research, as well as provides walk-in services and assistance to faculty in learning instructional technologies including access to a broad selection of specialized production software.

Distance Learning and Hybrid Courses

ISS is committed to providing graduate and undergraduate students, who are unable to take advantage of a traditional class schedule, with appropriate opportunities to participate in the learning process through the use of alternative media and methods for the delivery of instruction in a distance learning environment. ISS offers distance learning opportunities in hybrid and completely on-line formats for the UTEP campus. Through ISS the UTEP campus is also an active partner of the UT System TeleCampus

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

At their website you will find: online study programs, and courses, a digital library, free online student tutorial services, 24/7 technical support "helpdesk", links to various admissions and registrar offices throughout the UT System and full program descriptions for the available online courses and degrees the UT TeleCampus facilitates.

Students interested in undertaking distance courses through UTEP and the UT TeleCampus must be fully admitted to UTEP or to one of the other UT System academic university campus components by completing the Inter-Institutional Distance Education Admission and Registration (IDEAR) form online at the UT TeleCampus website (www.telecampus.utsystem.edu). Once admitted to one of the 15 University of Texas campuses, students can select courses offered through the distance education delivery options of the UT TeleCampus. Students are required to abide by the host university policies, procedures, and requirements regarding the course selection process, and student qualifications. Additional new on-line courses and program degree study options are routinely being added at UTEP and as a result, interested students are encouraged to consult the ISS website at UTEP for the most recent information: <http://iss.utep.edu>.

The Mediated and Distance Learning Group (MDL) at ISS also works in cooperation with UTEP faculty across the six academic colleges in the design, delivery, course management, and evaluation of distance education and online instructional programs. It also promotes and implements campus policies and practices to appropriately guide the growth and development of all UTEP distance education programs. In carrying out its mission, the ISS office collaborates with public and private institutions to meet the expanding needs for higher education and workforce retooling in the region. MDL and ISS staff works with UTEP faculty to develop instructional programs that integrate a variety of technology-based and electronic digital media materials, face-to-face instruction, World Wide Web (WWW), Internet, interactive videoconferencing, CD ROM, and other telecommunications technologies for teaching and learning.

Administrative offices for ISS are located in the Undergraduate Learning Center, Suite 308 and can be contacted by phone at (915) 747-6675.

BORDER BIOMEDICAL RESEARCH CENTER (BBRC)

The Border Biomedical Research Center (BBRC), developed and supported by grants from the National Institutes of Health, was established in 1992 as a basic biomedical research center in Infectious Diseases, Toxicology, and Neurological and Metabolic Disorders. The mission of the BBRC is to enhance the capability for biomedical research at the University of Texas at El Paso relevant to the Border region and to promote the progress of minority scientists in biomedical research. The BBRC's Core Facilities in Analytical Cytology, Cell Culture, Biomolecule Characterization and DNA Sequencing and Analysis all have state-of-the-art instrumentation. The BBRC also has an active [Statistical Consulting Laboratory](#), and a modern Bioinformatics Laboratory. The BBRC will soon move to new facilities following completion of the new Biosciences Research Building. For more information visit the BBRC Web site at <https://www.utep.edu/bbrc>.

CENTER FOR CIVIC ENGAGEMENT (CCE)

The mission of the Center for Civic Engagement (CCE) at the University of Texas at El Paso is to engage faculty and students in the community through community-based teaching and learning in order to enhance student learning, promote civic engagement and actively improve the El Paso-Cd. Juarez Region.

The CCE, born in 1998, works with faculty and students in all colleges and collaborates with a wide variety of public agencies, schools, non-profit and community-based organizations. It aims to foster collaborative leadership, civility and deepen democracy in the region through what may be alternatively known as hands-on/action-oriented learning, civic education, Service Learning, and/or active citizenship.

Primarily grant funded, the CCE sponsors, among other activities, Community Partnership Classes; the Border Poll Crew, which encourages College students to participate in elections; the SHINE-ESL Adult Literacy and SHINE-Citizenship Adult Literacy programs, the TEAM (Tutoring Engagement and Mentoring) program; and the Just Read! Program for children in Pre-K through 4th grade.

CENTER FOR EFFECTIVE TEACHING AND LEARNING (CETaL)

The Center for Effective Teaching and Learning (CETaL) is a resource for University faculty. CETaL provides faculty with workshops, confidential consulting on issues of course and curriculum design, assessment and documentation of effective teaching, the opportunity for faculty mentoring, and a library of teaching and learning materials. Through these services, faculty can document their teaching effectiveness.

CETaL seeks to cultivate an environment where teaching is highly valued and where teachers strive continuously to improve their effectiveness. It is a scholarly center working to find, document, report, and help advance the best teaching practices at UTEP and elsewhere. In addition, CETaL aids faculty in conducting scholarly research on teaching, curriculum, and other issues related to teaching and learning.

CETaL is a resource for those who understand that teaching is a complex and interactive process among many parties in a variety of environments, and that it can be taught, improved, and evaluated.

CENTER FOR ENVIRONMENTAL RESOURCE MANAGEMENT (CERM)

The Center for Environmental Resource Management (CERM) coordinates faculty and student research addressing the environmental problems affecting the border region of the southwestern United States and northern Mexico, including hazardous waste, air quality, water availability and quality, ecology, environmental health, the built environment, environmental risks, sustainability, and policy issues. Students receiving support through CERM get hands-on experience on research projects addressing a variety of issues such as management of water resources, measurement and characterization of air pollution, methods of containment and remediation of soil-borne and water-borne contaminants, development of alternative energy technologies such as wind energy, and development of community-based training programs to help disadvantaged communities to restore and maintain environmental health. CERM also coordinates education, outreach and policy development programs, as well as UTEP's doctoral program in environmental science and engineering. CERM provides the research infrastructure needed to support major University environmental programs including the Energy Center, the Rio Bosque Wetlands Park, Indio Ranch Research Station, and the Southwest Center for Environmental Research and Policy Consortium (SCERP). In 2007, CERM received a Texas Environmental Excellence Award from the Texas Commission on Environmental Quality.

CENTER FOR INTER-AMERICAN AND BORDER STUDIES (CIBS)

The Center for Inter-American and Border Studies (CIBS) coordinates UTEP's degree programs in Latin American and Border Studies. These include the undergraduate major and minor, and an interdisciplinary MA. CIBS also conducts research and assists other units with research on the Border, in Mexico, and Latin America. Recent projects have focused on issues such as Border demography, Border health, Border governance, and Border economics. CIBS sponsors events and publications addressing Border and Latin American issues, and works to forge linkages between UTEP and other institutions and agencies in the Border region, in Mexico, and in Latin America.

CENTER FOR RESEARCH ON EDUCATIONAL REFORM

Established in 2002, the Center for Research on Educational Reform (CRER) conducts broad-based and multidisciplinary research on issues of educational reform in the public schools and in higher education. The university-wide Center builds on more than a decade of K-16 educational reform efforts at the University of Texas at El Paso. A significant element of the Center's initial work is research that addresses critically important questions about the impact of these and similar reform efforts. Major initiatives of the Center include the NSF-funded Mathematics and Science Partnership, Teaching Gender Equity in Mathematics and Science, and Math Education Reform. The Center also provides opportunities for faculty and graduate students to do significant research.

CENTER FOR TRANSPORTATION INFRASTRUCTURE SYSTEMS (CTIS)

The Center for Transportation Infrastructure Systems (CTIS), addresses the need for basic and applied research related to transportation infrastructure. CTIS is an internationally known center of excellence in nondestructive testing of transportation facilities; it is extensively involved in research dealing with the use of advanced field and laboratory techniques in transportation infrastructure, geo-technical earthquake engineering, and environmental engineering. At any given time, CTIS is engaged in about 20 projects dealing with the planning, design, evaluation, and construction of transportation infrastructure. CTIS has also expanded its research activities to include transportation planning and infrastructure management-with current projects dealing with risk assessment of transporting hazardous materials along the U.S.-Mexico border and the impact of increased traffic flow on the safety of people and the environment. A technology transfer sub-center for Spanish-speakers is located at CTIS with a large collection of Spanish-language technical reports and training videotapes. For more information visit the CTIS web site at <http://ctis.utep.edu>.

HISPANIC HEALTH DISPARITIES RESEARCH CENTER (HHDC)

The Hispanic Health Disparities Research Center (HHDC) provides leadership to research-based innovations that will reduce Hispanic health disparities. Funded by the National Institutes of Health's National Center on Minority Health and Health Disparities, the HHDC is a collaborative venture between UTEP's College of Health Sciences and School of Nursing and the University of Texas at Houston School of Public Health. The aims of the Center are to (a) build capacity for researchers in health disparities; (b) create a program of excellence to investigate and eliminate Hispanic health disparities in the Texas-Mexico border region; (c) establish the University of Texas System as a leader in Hispanic health disparities; and (d) promote knowledge transfer to both practice and policy.

The mission of the HHDC is guided by a conceptual framework that makes explicit and serves as a catalyst for research on the variables of interest that influence Hispanic health disparities. Activities of the Center include research, research training and education, and community engagement and dissemination. A recently awarded NIH P20 grant funds two full studies, including (1) a population-based assessment of health disparities among Hispanics in El Paso and (2) research focused on cultural and institutional factors affecting adherence to HIV/AIDS treatment in border clinics. In years 3-5 of this grant, new pilot studies based on this research will be funded.

INSTITUTE FOR MANUFACTURING AND MATERIALS MANAGEMENT (IM³)

The Institute for Manufacturing and Materials Management (IM³) serves as both a focal point for UTEP's diverse manufacturing efforts and as a conduit for University resources to area manufacturers. IM³ offers a range of programs and services in the following areas: (1) The Texas Manufacturing Assistance Center (TMAC) provides technical solutions to industrial problems ranging from design-for-manufacturing to supply-chain qualification to pollution prevention; (2) IM³ assists manufacturers in filling both long and short-term workforce development gaps through a number of programs including K-12 and university student outreach programs; industrial arts program development; and student internship programs in regional industry settings; (3) the Institute assists area Economic development agencies by identifying industry sector gaps and facilitating strategic planning; and (4) IM³ provides support for the manufacturing education program funded by the Society of Manufacturing Engineers.

INSTITUTE FOR POLICY AND ECONOMIC DEVELOPMENT (IPED)

The mission of the Institute for Policy and Economic Development (IPED), located at The University of Texas at El Paso, is to provide leadership and coordination in providing objective analysis and interpretation of public and private policy research, to address issues of importance to the people of the Paso del Norte and Camino Real, and to ensure that economic development proceeds in a rational and sustainable fashion. The Institute's interdisciplinary approach to research design, data collection, and analysis provides the Institute's clientele with objective, timely information that forms the framework needed for public policy investigation in areas such as economic development, technology and business development, and trade and transportation.

IPED administers three key academic programs (1) the Master of Public Administration; (2) the Master of Leadership Studies, which provides opportunities both for soldiers at Ft. Bliss and for civilians interested in professional and career advancement; and (3) the Intelligence Community Center of Academic Excellence, which was funded by the Office of the Director of National Intelligence to prepare future professionals in the study of national security, intelligence, foreign area studies, language proficiency, geographical expertise, and related competencies.

MATERIALS RESEARCH AND TECHNOLOGY INSTITUTE (MRTI)

The Materials Research and Technology Institute (MRTI) administers the University's multi-disciplinary Ph.D. program in Materials Science and Engineering (MASE); fosters interdisciplinary research across the Colleges of Science, Engineering, Business and Liberal Arts; and supports the Ph.D. programs in Environmental Science and Engineering, Chemistry, and Biology. MRTI also fosters the development of intellectual property by UTEP faculty, staff, and students and helps develop industrial partnerships and new businesses based on UTEP intellectual property. Key MRTI activities include the Department of Energy-funded UTEP/Stanford Gateway Program, which gives UTEP faculty and students access to the Stanford Synchrotron Radiation Laboratory; Mayan Pigments, Inc., which is commercializing complex organic/inorganic materials developed by UTEP researchers; and Refinery Science Corporation, which is working to convert heavy petroleum feed stocks to useful transportation fuels, among other projects.

W.M. KECK CENTER FOR 3D INNOVATION

The W.M. Keck Center for 3D Innovation (Keck Center) is an advanced engineering, manufacturing, and biomedical laboratory focused on multi-disciplinary research. Originally funded through a \$1 million grant from the W.M. Keck Foundation, the newly renovated 6,100-square-foot facility is the only one of its kind in the world. The facilities house more than \$4 million in research infrastructure, including 17 rapid prototyping machines with combined infrastructure for advanced manufacturing, cardiovascular hemodynamics (experimental fluid mechanics), and tissue engineering (including scaffold fabrication, polymer synthesis, and cell culture capabilities). The lab uses rapid prototyping technologies to fabricate functional end-use products and patient-specific anatomical shapes for use in pre-surgical planning, surgery, medical device development, cardiovascular flow research, tissue engineering and more.



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Core Curriculum

All undergraduates at The University of Texas at El Paso are required to complete a 42-semester credit hour core curriculum before receiving a baccalaureate degree. For degree plans that terminate with a post-baccalaureate degree, without completing the baccalaureate degree, undergraduates are required to complete the core curriculum before enrolling in graduate-level courses.

CORE BLOCKS AND COURSES

The core curriculum consists of nine components, or blocks. Each block has a required minimum number of semester credit hours. The minimum number is also the maximum number of hours that may be applied toward the core requirement. Any additional hours may apply toward degree requirements. The courses that may be used to satisfy the block requirements are listed with their Texas Common Course Number (TCCN) in brackets. The core curriculum requirement does not preclude the counting of core courses toward other degree requirements. Students are advised to consult particular degree requirements for their major before selecting courses to meet core curriculum requirements.

I. Communication (nine hours) The objective of the communication component is to enable the student to communicate effectively in clear and correct prose or orally in a style appropriate to the subject, occasion, and audience.

A. English Composition (six hours):

1. For students whose secondary education was in English:

a. **ENGL 1311** Expository English Composition [ENGL 1301] *and*

ENGL 1312 Research and Critical Writing [ENGL 1302] *or*

b. **ENGL 1311** Expository English Composition [ENGL 1301] *and*

ENGL 1313 Writing About Literature *or*

c. **ENGL/COMM 1611**¹ Written and Oral Communication *and*

ENGL 1312 Research and Critical Writing [ENGL 1302]

2. For students whose secondary education was not in English:

ESOL 1311 Expository English Composition for Speakers of ESL

[ENGL 1306] *and*

ESOL 1312 Research and Critical Writing for Speakers of ESL

[ENGL 1307]

B. Speech (three hours):

COMM 1301¹ Public Speaking [SPCH 1315] *or*

COMM 1302 Business and Professional Communication [SPCH 1321]

¹ COMMENGL 1611 may be used to satisfy both the ENGL 1311 and COMM 1301 requirements.

II. Mathematics (three hours) The objective of the mathematics component is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

Select one course from the following (only three hours apply toward the required 42):

MATH 1319 Math in the Modern World [MATH 1333] *or*

MATH 1320 Mathematics for the Social Sciences I [MATH 1324] *or*

MATH 1508¹ Precalculus [MATH 2412²]

¹ A higher level course in the calculus sequence may be substituted.

² TCCN MATH 1314 will also satisfy this requirement.

III. Natural Sciences (six hours, a minimum of two semesters of lecture and one semester of laboratory) The objective of the study of the natural sciences is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories. The courses listed are for non-majors; the major courses in the discipline may be substituted for the non-major sequence.

Select one sequence from the following (only six hours apply toward the required 42):

1. **ASTR 1307** Elementary Astronomy of the Solar System [PHYS 1311] **and**

ASTR 1308 Elementary Astronomy of Stars and Galaxies [PHYS 1312] **and**

a. **ASTR 1107** Astronomy Laboratory I [PHYS 1111] **or**

b. **ASTR 1108** Astronomy Laboratory II [PHYS 1112]

2. a. **BIOL 1303** Introductory Biology [BIOL 1308] **and**

BIOL 1304 Human Biology **and**

(1) **BIOL 1103** Introductory Biology Laboratory [BIOL 1108] **or**

(2) **BIOL 1104** Human Biology Laboratory (nonmajor-track) **or**

b. **BIOL 1305** General Biology [BIOL 1306] **and**

BIOL 1107 Topics in Study of life I [BIOL 1106] **and**

(1) **BIOL 1306** Organismal Biology [BIOL 1307] **and**

BIOL 1108 Organismal Biology Laboratory [BIOL 1107] **or**

(2) **BIOL 2311** Human Anatomy and Physiology I [BIOL 2301] **and**

BIOL 2111 Human Anatomy and Physiology Lab I [BIOL 2101] **or**

(3) **BIOL 2313** Human Anatomy and Physiology II [BIOL 2302] **and**

BIOL 2113 Human Anatomy and Physiology Lab II [BIOL 2102]

3. a. **CHEM 1407** Introductory Chemistry [CHEM 1406] **and**

CHEM 1408 Introductory Chemistry [CHEM 1408] (nonmajor-track) **or**

b. **CHEM 1305** General Chemistry [CHEM 1311] **and**

CHEM 1105 Laboratory for CHEM 1305 [CHEM 1111] **and**

CHEM 1306 General Chemistry [CHEM 1312] **and**

CHEM 1106 Laboratory for CHEM 1306 [CHEM 1112]

4. **ESCI 1301** Introduction to Environmental Science [ENVR 1301] **and**

ESCI 1101 Environmental Science Laboratory [ENVR 1101] **and**

a. **BIOL 1306** Organismal Biology [BIOL 1307] **and**

BIOL 1108 Organismal Biology Laboratory [BIOL 1107] **or**

b. **BIOL 1303** Introductory Biology [BIOL 1308] **and**

BIOL 1103 Introductory Biology Laboratory [BIOL 1108] (nonmajor-track) **or**

c. **GEOL 1313** Introduction to Physical Geology [GEOL 1303] **and**

GEOL 1103 Laboratory for GEOL 1313 [GEOL 1103] **or**

d. **GEOL 1311** Principles of Earth Sciences [GEOL 1301] (nonmajor-track) **or**

e. **GEOG 1306** Physical Geography [GEOG 1301] **and**

GEOG 1106 Laboratory for Geography 1306

5. a. **GEOL 1311** Principles of Earth Sciences [GEOL 1301] **and**

GEOL 1312 Principles of Earth Sciences [GEOL 1302] **or**

b. **GEOL 1311** Principles of Earth Sciences [GEOL 1301] **and**

GEOG 1306 Physical Geography [GEOG 1301] **and**

GEOG 1106 Laboratory for Geography 1306 **or**

c. **GEOL 1312** Principles of Earth Sciences [GEOL 1302] **and**

GEOG 1306 Physical Geography [GEOG 1301] **and**

GEOG 1106 Laboratory for Geography 1306 **or**

d. **GEOL 1313** Introduction to Physical Geology [GEOL 1303] **and**

GEOL 1103 Laboratory for GEOL 1313 [GEOL 1103] **and**

GEOG 1306 Physical Geography [GEOG 1301] **and**

GEOG 1106 Laboratory for Geography 1306 **or**

e. **GEOL 1313** Introduction to Physical Geology [GEOL 1303] **and**

GEOL 1103 Laboratory for GEOL 1313 [GEOL 1101] **and**

GEOL 1314 Introduction to Historical Geology [GEOL 1304] **and**

GEOL 1104 Laboratory for GEOL 1314 [GEOL 1104]

6. a. **PHYS 1403** General Physics I [PHYS 1401] **and**

PHYS 1404 General Physics II [PHYS 1402] **or**

- b. **PHYS 2420** Introductory Mechanics [PHYS 2425] *and*
PHYS 2421 Fields and Waves [PHYS 2426]

IV. Humanities (three hours) The objective of the humanities component is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature and philosophy, students will engage in critical analysis and develop an appreciation of the humanities as fundamental to the health and survival of any society.

Select one course from the following:

1. **ENGL 2311** English Literature [ENGL 2322]
2. **ENGL 2312** English Literature [ENGL 2323]
3. **ENGL 2313** Introduction to American Fiction [ENGL 2342]
4. **ENGL 2314** Introduction to American Drama [ENGL 2343]
5. **ENGL 2318** Introduction to American Poetry [TCCN applied for]
6. **HIST 2301** World History to 1500 [HIST 2321]
7. **HIST 2302** World History since 1500 [HIST 2322]
8. **PHIL 1301** Introduction to Philosophy [PHIL 1301]
9. **PHIL 2306** Ethics: Philosophical Perspective on Human Conduct and Values [PHIL 2306]

V. Visual and Performing Arts (three hours) The objective of the visual and performing arts component is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination. Through study in disciplines of the visual and performing arts, students will form aesthetic judgments and develop an appreciation of the arts as fundamental to the health and survival of any society.

Select one of the following:

1. **ART 1300** Art Appreciation [ARTS 1301]
2. **ARTH 1305** History of World Art I [ARTS 1303]
3. **ARTH 1306** History of World Art II [ARTS 1304]
4. **DANC 1304** Dance Appreciation [DANC 2303]
5. **MUSL 1321** Introduction to Music History
6. **MUSL 1324** Music in Western Societies [MUSI 1306]
7. **MUSL 1327** Jazz to Rock [MUSI 1310]
8. **THEA 1313** Introduction to Theatre [DRAM 1310]
9. **FILM 1390** Introduction to the Art of the Motion Picture [DRAM 2366]

VI. United States History (six hours) The objectives of the history component are to expand students' knowledge of the origin and history of the U.S., their comprehension of the past and current role of the U.S. in the world, and their ability to critically evaluate and analyze historical evidence. U.S. history courses (three hours must be Texas history):

1. **HIST 1301** History of the U.S. to 1865 [HIST 1301] *and*
2. **HIST 1302** History of the U.S. since 1865 [HIST 1302]

VII. Political Science (six hours) The objectives of the political science component are to expand students' knowledge of the origin and evolution of the U.S. and Texas political systems, focusing on the growth of political institutions, and on the constitutions of Texas and the United States; and to enhance their understanding of federalism, states rights, and individual civil liberties, rights, and responsibilities.

1. **POLS 2310** Introduction to Politics [GOVT 2305] *and*
2. **POLS 2311** American Government and Politics [GOVT 2306]

VIII. Social and Behavioral Sciences (three hours) The objective of the social and behavioral science component is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

Select one course from the following:

1. **ANTH 1301** Introduction to Physical Anthropology and Archeology
[ANTH 2301]
2. **ANTH 1302** Introduction to Cultural Anthropology [ANTH 2351]
3. **ECON 1301** Basic Issues in Economics [ECON 1301] *or*
ECON 2303 Principles of Economics [ECON 2301] *or*
ECON 2304 Principles of Economics [ECON 2302]
4. **GEOG 1310** Cultural Geography [GEOG 1302]
5. **LING/ANTH/ENGL 2320** Introduction to Linguistics [TCCN applied for]
6. **PSYC 1301** Introduction to Psychology [PSYC 2301]
7. **SOCI 1301** Introduction to Sociology [SOCI 1301]

IX. Institutionally Designated Option (three hours) The objective of the institutionally designated option component is to develop the critical thinking skills and academic tools required to be an effective learner. Special emphasis is placed on the use of technology in problem solving, communications, and knowledge acquisition.

UNIV 1301 Seminar in Critical Inquiry [EDUC 1300] **or**

UNIV 2350 Interdisciplinary Technology and Society [TCCN applied for].

"C" RULE

All courses used to satisfy the core curriculum must be completed with a grade of "C" or better. This also applies to courses transferred from another institution.

TRANSFER STUDENTS

Students who transfer without completing the core curriculum at another Texas institution of higher education, but who have completed blocks within the core, shall receive credit in UTEP's core curriculum for each of the blocks successfully ("C" or better) completed in the core curriculum of the sending institution. If a student has successfully ("C" or better) completed the 42-hour core at another Texas institution of higher education, that core shall be substituted for The University of Texas at El Paso's core curriculum. Such a transfer student shall receive credit for each block within the core curriculum and shall not be required to take additional courses to satisfy UTEP's core curriculum. However, courses listed in UTEP's core curriculum may be required as a prerequisite to a course or as a degree requirement for the major.

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Study Abroad and Exchange Programs

UTEP's study abroad and exchange programs enable students to gain global experience through several types of international study. UTEP offers summer, semester or yearlong exchange opportunities in a great variety of countries. For details, please refer to the web page: <https://studentaffairs.utep.edu/oip>. Students may participate in several ways:

- UTEP class abroad, led by a UTEP faculty member;
- Exchange program with a partner university; or
- Affiliated international school.

The programs are generally open to all UTEP students, including international, but eligibility requirements vary by program. Most are designed for undergraduate students, but some will accept graduate students. Many require a minimum 2.5 GPA or higher. For programs with courses taught in a foreign language, students need to have either a minimum of two years of college-level study in that language, or the equivalent verbal and writing skills. Some programs in countries where English is not the native language do offer courses in English; for these programs, the language requirement will be waived.

Applications for study abroad are accepted every fall and spring semester for the next academic period. The deadlines are October 1 for spring, and February 15 for summer or fall.

Credit

Students participating in faculty-led or exchange programs are able to receive UTEP credit for the courses taken at the partner university, if approved prior to departure. Depending upon the course(s) chosen and departmental approval, the credit received while abroad may fulfill university core or major degree requirements. If not, the courses will be considered elective credit. Affiliate programs receive only transfer credit.

While abroad, students register for the appropriate class (for faculty-led programs), hours of EXCH courses (for exchange courses), or AFIL (for affiliate programs), and pay tuition to UTEP. Upon return, students receive the UTEP course equivalents for the classes taken abroad, which appear on the student's transcript. Prior approval for the courses taken abroad and their equivalents at UTEP is obtained from the student's major department, the Dean's office, and the Office of International Programs. Important: our partner institutions will not release a student's transcripts if the participant still owes money to them for any reason. Without the transcript, no credit can be given at UTEP.

Exchange Courses (EXCH)

Approved undergraduate study at a foreign university for UTEP credit. Course subjects determined by program selected and course availability. These courses may be repeated for credit. *Prerequisite:* Approval by Dean of College, Department and Office of International Programs.

2100 Student Exchange Program (1-0)

2200 Student Exchange Program (2-0)

2300 Student Exchange Program (3-0)

2400 Student Exchange Program (4-0)

Costs and Financial Aid

Students participating in faculty-led and exchange programs sponsored by UTEP pay the same or equivalent tuition they would if they were spending the same period on campus. In addition, students are responsible for room and board, personal expenses, books and supplies, travel to the program site, and any miscellaneous expenses. Students participating in affiliate programs must pay the tuition and additional costs as indicated by the institution they have chosen.

In some cases, additional costs of studying abroad can qualify a student for increased financial aid. Most additional aid available for study abroad is in the form of loans. The Financial Aid Office can provide more information on these sources of aid.

In addition to UTEP financial aid, there is a Study Abroad Scholarship. Four dollars of every UTEP student's fees go to support study abroad for UTEP students. The Study Abroad Scholarship is available for any kind of academic program abroad, including short-term summer programs, yearlong exchanges, and independent study or research. Both undergraduate and graduate students are eligible to apply. Scholarship amounts depend upon the cost of the program and the student's financial resources, including aid through UTEP's Financial Aid Office. The awards are based on both merit and financial need. To be eligible for the scholarship, an undergraduate student must meet the following requirements:

- Have an overall minimum GPA of 2.75
- Have completed at least 24 credit hours at UTEP prior to the Study Abroad Program





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College of Business Administration

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College of Business Administration

The College of Business Administration at The University of Texas at El Paso shares with the University its fundamental mission to provide the highest quality education to the residents of El Paso, west Texas, southern New Mexico and northern Mexico, commensurate with AACSB International standards for business education. The border location of the University and the expertise developed by the faculty provide an environment that affords opportunities for students to become knowledgeable in cross-border commerce as well as international business.

The College is committed to providing the widest possible access to quality higher education to allow our students to become competitive on a local, regional, national, and international level. Therefore, the goal of the College is to provide:

- Broad-based programs that give students the background necessary for entry into, and advancement in, professional and managerial positions; for life-long learning; for career success; and for responsible stewardship of our cultural, economic and environmental resources.
- Intellectual contributions that extend the boundaries of knowledge; improve application of existing knowledge to regional, national and international environments; and enhance the transfer of knowledge to students.
- Service that contributes to the personal and professional betterment of our students, the University, alumni, community, and academia.

Our quality is reflected in the success of our students, alumni, and faculty and in the enhancement of the personal and professional lives of community residents.

The undergraduate program leads to the Bachelor of Business Administration (BBA) degree. The BBA, the Master of Business Administration (MBA), Master of Accountancy (Macc), and the BBA in Accounting are all accredited by the AACSB International, the Association to Advance Collegiate Schools of Business.

The College of Business Administration supports academic and professional programs designed to promote and advance regional economic development and transfer proven business principles and practices to entrepreneurial ventures.

At the heart of all these programs is a distinguished faculty committed to teaching, research, and community service. Their work, as well as that of their students, is supported by the superb facilities of the College of Business Administration. The College includes the Texas Gas Service Student Center (TGSSC), an Investment Center, and a Computer Application Learning Center (CALC) laboratory. The TGSSC, located on the first floor of the College, provides facilities and equipment designed to enhance student learning. This wireless facility, which opened in Fall 2004, has 17 meeting rooms and two large conference rooms and is equipped with a number of computers, printers, and other technical equipment such as video cameras and projection equipment for student use. The Investment Center, which began operations in Spring 2005, provides a state-of-the-art facility to acquaint students with best practices in the securities industry. The new investment center is located across the foyer from the TGSSC and boasts open viewing for its market ticker, quote board and multiple market data feeds. The Center is designed for hands-on investment capability through specially designed classes and seminar activities.

The CALC, located on the third floor of the College, includes three microcomputer laboratories and a fully equipped computer classroom. This modern facility serves as the focal point for computer, audiovisual, and multimedia-based learning.

Information on graduate programs may be obtained from the *Graduate Catalog*. In addition, a Bachelor of Arts in Economics is offered through the College of Liberal Arts. Business minors, including general business, accounting, economics, management, marketing, and computer information systems, are also available to students in the College of Liberal Arts.

Bachelor of Business Administration

The College of Business Administration, with departments of Accounting, Economics and Finance, Information and Decision Sciences, and Marketing and Management, offers a BBA degree with the following majors: Accounting; Computer Information Systems; Economics; Finance with concentrations available in General Finance and Commercial Banking; General Business with concentrations in International Business and Secondary Education; Management with concentrations available in General Management and Human Resource Management; Marketing; and Operations and Supply Chain Management.

Policies Concerning Admission to and Completion of BBA Degree Programs

1. Students entering the College of Business Administration will be designated as Pre-Business majors until they have completed the requirements for admission to a major option program offered by the College. In order to declare as a Pre-Business major, the student **must** file a degree plan in the Office of the Dean.
2. Admission to a major option program is limited to those students who meet the following requirements:
 - a. Completion of the Non-Business Foundation Requirements and the Business Foundation Requirements as described in the "Undergraduate Course of Study" for the Bachelor of Business Administration.
 - b. Completion of the following courses (or their equivalent) with a minimum grade of "C": ACCT 2301 and ACCT 2302; ECON 2303 and ECON 2304; ENGL 1311, 1312 and ENGL 3355; MATH 1320 and MATH 2301; QMB 2301.
 - c. An overall GPA of 2.0 or greater in all hours attempted.
3. Upon completion of requirements in item 2, the student will be admitted to one of the major option programs offered by the College of Business Administration. Upon admission, the major code will be changed from Pre-Business to the major option code for the program.
4. Enrollment in the upper-division level courses offered by the College of Business Administration is restricted to those students who have been admitted to one of the BBA major option programs. Concurrent enrollment in lower-division courses in item 2-a and upper-division business courses is allowed only once upon written permission of the Office of the Dean. Upper-division business courses taken by a Pre-Business major without written permission of the Undergraduate Advisor will be counted as business electives only, and other approved upper-level business courses will be designated to complete the degree requirements.
5. A freshman-level course may be repeated once and the latter grade substituted for a previous grade in the student's grade point average (GPA) calculation. Grades and attempted hours for other repeated courses will be used in computing the GPA.

6. Only those transfer credits with a grade of "C" or better will be accepted for credit toward the BBA degree. Courses taken at two-year institutions or as a requirement for a two-year degree are accepted by the College of Business Administration as transfer credits for lower-division courses only. Courses taken at four-year accredited institutions and designated as lower-division courses may be accepted as upper-division credits if the course is taught at the upper-division level at UTEP and has received additional validation from the Office of the Dean. Transfer credit for upper-division business administration courses is restricted to AACSB accredited curricula. Transfer credit for courses from institutions outside the United States will be evaluated independently. The applicability of transfer credits to the degree plan is determined by the Office of the Dean.

7. To complete the degree, a student must comply with the following:

- Complete the required course of study as outlined below.
- Follow University academic regulations as stated elsewhere in this catalog.
- Earn a 2.0 GPA in all courses attempted within the College of Business Administration.

Note: Accounting majors must also earn a 2.0 or better GPA average in ACCT 3321 and accounting courses listed in the Accounting Option Requirement.

8. A graduating senior must file an application for the degree with the Office of the Dean before the semester of graduation. Students are responsible for setting an appointment to clear for graduation during announced times.

9. Students working toward the BBA degree may not enroll on a pass/fail basis in any course taught in the College of Business Administration.

10. Six of the last 30 hours needed to complete the BBA degree may be taken at another university; however, the student must receive written approval from the Office of the Dean before enrolling at the other institution.

11. MGMT 4300, Strategic Management, may be taken only during the semester or summer term in which the degree is to be conferred. Approval of the Undergraduate Advisor is required for enrollment in this course.

12. Non-BBA students wishing to take upper-division business courses must be advised in the College of Business Administration, Room 102. Students wishing to take upper-division courses must have junior standing (60 credit hours) and a 2.0 cumulative GPA and must have completed the stated prerequisites for the course.

13. Students must complete 50 percent or more of their College of Business Administration credit hours at UTEP.

14. Students may pursue more than one major option by completing all requirements, including Major Option Requirements, for all major options selected.

Undergraduate Course of Study

The course of study for the Bachelor of Business Administration degree includes four sets of academic requirements.

| | |
|--------------------------------------|-------------------|
| Non-Business Foundation Requirements | 48 semester hours |
| Business Foundation Requirements | 15 semester hours |
| Business Core Requirements | 33 semester hours |
| Major Requirements | 24 semester hours |

| | |
|--------------|---------------------------|
| Total | 120 semester hours |
|--------------|---------------------------|

Non-Business Foundation Requirements (48 semester hours)

All of these courses must be completed with a grade of "C" or better.

- 6 - ENGL 1311* and 1312 (or ESOL 1311, 1210, and 1312)
- 3 - ENGL 3355
- 3 - COMM 1301* or 1302
- 6 - MATH 1320 and 2301
- 6 - POLS 2310 and 2311
- 6 - HIST 1301 and 1302
- 3 - Humanities

See University Core Curriculum/Humanities menu for approved courses.

- 6 - Natural Sciences; lab required

See University Core Curriculum/Natural Science menu for approved courses.

- 3 - Visual and Performing Arts

See University Core Curriculum/Visual and Performing Arts menu for approved courses.

- 3 - PSYC 1301 or SOCI 1301
- 3 - UNIV 1301 or UNIV 2350

*English 1611 may be counted for ENGL 1311 and COMM 1301.

Business Foundation Requirements (15 semester hours)

All of these courses must be completed with a grade of "C" or better.

- 6 - ACCT 2301 and 2302
- 6 - ECON 2303 and 2304
- 3 - QMB 2301

The UTEP Core Curriculum is included in the Non-Business Foundation requirements. Students should make core curriculum course choices carefully based on these requirements in order to complete their degrees with the minimum number of courses.

Business Core Requirements (33 semester hours)

- 3 - ACCT 3314 or 3321 or 3323 (Accounting option requires 3321)*3 - BLAW 3301
- 3 - ECON 3320
- 3 - FIN 3310
- 3 - CIS 3345
- 3 - SCM 3321
- 3 - QMB 3301
- 3 - BUSN 3304
- 3 - MGMT 3303
- 3 - MKT 3300
- 3 - MGMT 4300 (Taken in last semester)

**ACCT 3314 and ACCT 3323 cannot both be taken for credit in any option.*

ACCT 3314 cannot be counted by accounting majors toward fulfillment of any part of the accounting option degree requirements.

Major Requirements (24 semester hours)

Accounting

- 18 - ACCT 3319, 3320, 3322, 3323, 3327, and 4304
- 3 - Elective from ACCT 4301, 4305, 4321, 4325, 4328 or 4399
- 3 - Elective from ACCT 43XX, BLAW 4325, BLAW 4391, FIN 4318, MGMT 3311, CIS 3350, CIS 4330, CIS 4365, or CIS 4370.

Computer Information Systems

- 15 - CIS 3301, 3350, 3355, 4365, and 4370
- 9 - Electives from CIS 3385, 4305, 4320, 4330, 4399, or SCM 3335

Economics

- 6 - ECON 3302 and ECON 3303
- 12 - Electives from upper-division ECON courses
- 6 - Upper-division electives

Finance

General Finance Concentration

- 6 - FIN 3315 and FIN 4310
- 9 - Electives from upper-division FIN courses
- 3 - Elective from upper-division ACCT courses
- 6 - Upper-division electives

Commercial Banking Concentration

- 9 - FIN 4311, 4312, and 4318
- 3 - Elective from FIN 3315, 3325, 4310, or 4325
- 6 - Electives from upper-division ACCT courses
- 6 - Upper-division electives

General Business

International Business Concentration

- 6 - Sophomore language (e.g., SPAN 2301 and 2302 or SPAN 2303 and 2304)
- 12 - Electives from ACCT 4325, BLAW 4325, ECON 3366, ECON 3367, ECON 4325, ECON 4368, FIN 4325, MGMT 4325, or MKT 4325
- 3 - Upper-division non-business elective
- 3 - Upper-division business elective

Hospitality/Tourism Concentration

Students must maintain a 2.5 GPA in all hospitality/tourism courses.

- 3 - MGMT 3307

18 - From ACCT 4320, CIS 4326, FIN 4324, MGMT 4328, MGMT 4330, MGMT 4340, or MKT 4320

18 - FROM ACCT 4320, CIS 4320, FIN 4324, MGMT 4338, MGMT 4339, MGMT 4340, OR MKT 4320

3 - MGMT 4395

Secondary Education Concentration¹

3- RED 3342

3- EDPC 3300

15 - SCED 3311, 3317, 4370, and 4691

3- Upper-division business electives

¹Students in this option are required to check with the College of Education about entry into the Teacher Education Program. Students in this option must select an English literature course as the humanities choice in the non-business foundation. The inclusion of TED 2101 requires an adjustment of concentration requirements to 25 semester hours.

General Business Concentration

18 - Upper-division business electives (no more than 6 hours in any one functional area)

6 - Upper-division non-business electives

Management

General Management Concentration

12 - MGMT 3304, 3311, 3315, and 4325

3 - Elective from upper-division MGMT courses

3 - Upper-division non-business elective

6 - Upper-division business electives

Human Resource Management Concentration

3 - MGMT 3311

9 - Electives* from MGMT 3315, 4304, 4310, 4315, and 4337

6 - Electives from upper-division MGMT courses

3 - Upper-division non-business elective

3 - Upper-division business elective

* Some HRM electives may not be offered every semester

Marketing

12 - MKT 3302, 4301, 4325, and 4395

6 - Electives from upper-division MKT courses

3 - Upper-division non-business elective

3 - Upper-division business elective

Operations and Supply Chain Management

15 - SCM 3322, 3331, 3333, 3337, and 4375

6 - Electives from upper division SCM courses

3 - Upper-division business elective

Minors in Business and Economics

Students who are not majoring in Business may obtain minors in Business and Economics in four areas: General Business, Accounting, Economics, and Management. Students should check with their major advisors for further details.

General Business Minor - CIS 2320 and 15 hours from BLAW 3301, ACCT 3309 or 2301, MKT 3300, MGMT 3303, FIN 3310, and ECON 3320 or CIS 3345. Students electing this minor field must complete ECON 2304 (fulfills Social and Behavioral Sciences requirement) and MATH 1320, 2301, or STAT 2380 (fulfills Mathematics/Statistics requirement).

Accounting Minor - ACCT 2301 and 2302, CIS 2320, and nine hours from ACCT 3321, 3322, 3323, 3327, 4301, 4305, or 4328. Students electing this minor field must complete ECON 2304 (fulfills Social and Behavioral Sciences requirement) and MATH 1320, MATH 2301, or STAT 2380 (fulfills Mathematics/Statistics requirement).

Economics Minor - ECON 2303 and 2304, ECON 3302 or 3303, and nine hours from ECON 3300 or 4300 level courses. Students electing this minor field must complete MATH 1320, MATH 2301, or STAT 2380 (fulfills Mathematics/Statistics requirement).

Management Minor - CIS 2320, ACCT 2301, and 12 hours from BLAW 3301, MGMT 3303, MGMT 3311, MGMT 3320, MGMT 4325, and SCM 3321. Students electing this minor field must complete ECON 2304 and MATH 1320, MATH 2301, or STAT 2380 (fulfills Mathematics/Statistics requirement).

Major in Economics in Liberal Arts

Students may obtain a BA degree with a major in Economics from the College of Liberal Arts. Students should refer to the Department of Economics for details. Students pursuing the BA in Economics may not minor in Business.



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Accounting

260 Business Administration
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INTERIM CHAIRPERSON: Raymond Zimmermann
PROFESSOR EMERITUS: Gary J. Mann
PROFESSORS: Salter, Zimmermann
ASSOCIATE PROFESSOR EMERITUS: Walter G. Austin, Jr.
ASSOCIATE PROFESSORS: Braun, Eason, Glandon, S., Glandon, T., Putnam
ASSISTANT PROFESSORS: Howell, Huerta, Mayne
LECTURERS: Otero, Stevens

The Department of Accounting at the University of Texas at El Paso shares with the University its fundamental mission to provide the highest quality education to citizens of El Paso and the West Texas region. The Bachelor of Business Administration-Accounting (BBA-Accounting) degree is designed as an in-depth study of the basic topics of accounting and is intended to provide students with the knowledge and skills necessary for entry into accounting positions in public, private, and governmental or other not-for-profit organizations, as well as the educational background necessary for entry into a graduate program. The BBA-Accounting concentration and the Master of Accountancy degrees are accredited by AACSB International-the Association to Advance Collegiate Schools of Business. The BBA-Accounting concentration does not provide the total number of hours of coursework necessary to be academically qualified as a candidate for the Uniform CPA Examination in the State of Texas.

Accounting (ACCT) courses and Business Law (BLAW) courses are included under the Accounting section.

Accounting (ACCT)

2301 Principles of Accounting I (3-0)

(* ACCT 2301)

A study of financial accounting concepts and procedures from the initial recording of an economic transaction to the preparation of financial statements for an entity.
Prerequisite: MATH 1409, MATH 1410, MATH 1508, or MATH 1320 with a grade of "C" or better.

2302 Principles of Accounting II (3-0)

(* ACCT 2302)

A continuation of Principles of Accounting I and study of cost accounting and managerial uses of accounting information. *Prerequisites:* ACCT 2301 and MATH 1409, or MATH 1410, or MATH 1508, or MATH 1320 each with a grade of "C" or better.

* Indicates Texas Common Course Number (TCCN)

3309 Survey of Accounting Principles, Techniques and Concepts (3-0)

A nontechnical approach to accounting with an emphasis on the use and interpretation of financial statements. May not be counted toward the BBA and the combined BBAMAcc degree requirements. ACCT 2301 and ACCT 3309, or ACCT 2302 and ACCT 3309 may not both be counted toward any degree requirement.

3314 Management Accounting (3-0)

A study of product costing systems, planning and control systems, and the use of accounting data in management decision making. May not be counted toward BBA in Accounting degree requirements. ACCT 3314 and ACCT 3323 may not both be counted toward any degree requirements. *Prerequisite:* ACCT 2302 with a grade of "C" or better.

3319 Software Applications for Accounting (3-0)

Application of financial and managerial accounting concepts to current accounting information system software, electronic spreadsheets, and database management systems. This course is not available to non-accounting majors. *Prerequisites:* ACCT 2302 with a grade of "C" or better and demonstrated proficiency in spreadsheet and database software applications.

3320 Accounting Systems (3-0)

Analysis of fundamental accounting systems. Emphasis on internal control and accounting transaction cycles, relationship of system and organization objectives, policies, procedures, and plans. *Prerequisite:* ACCT 3321.

3321 Intermediate Accounting I (3-0)

A study of financial accounting principles, concepts, and objectives. An in-depth examination of elements of financial statements. Preparation of financial reports in accordance with generally accepted accounting principles. *Prerequisites:* ACCT 2302 with a grade of "C" or better and demonstrated proficiency in spreadsheet and database software applications.

3322 Intermediate Accounting II (3-0)

A continuation of Intermediate Accounting I. An in-depth study of financial accounting concepts, elements of financial statements, and preparation of financial reports. *Prerequisite:* ACCT 3321 with a grade of "C" or better.

3323 Cost Accounting (3-0)

A study of theory and procedures of product costing in job order and process cost systems, overhead allocation issues, and determination of standard costs, budgetary controls, variance analysis, and cost-volume-profit analysis for management decision making. Application of the managerial accounting

framework to service organizations. *Prerequisites:* ACCT 2302 with a grade of "C" or better and demonstrated proficiency in spreadsheet and database software applications.

3327 Federal Income Tax - Individuals (3-0)

A comprehensive explanation of the Internal Revenue Code and Regulations pertaining to individuals and the preparation of individual tax returns. *Prerequisites:* ACCT 2302 with a grade of "C" or better and demonstrated proficiency in spreadsheet and database software applications, or department approval.

3329 Ethics in Accounting (3-0)

A study of ethics in the accounting profession. Emphasis is placed on the theories of ethics and their applications; the Texas State Board of Accountancy's rules of ethics; the AICPA's Code of Professional Conduct; implications of the Sarbanes-Oxley Act; and ethical conditions required by the Securities Exchange Commission. Course is restricted to accounting majors. Course grade is not included in the calculation of the upper-division accounting GPA. *Prerequisite:* ACCT 3321 with a grade of "C" or better.

4199 Current Concepts in Accounting (1-0)

4399 Current Concepts in Accounting (3-0)

Topics to be announced. The course may be repeated for credit when the topic varies. *Prerequisites:* Senior standing, a College of Business GPA of 2.5 or better, completion of a minimum of 9 hours of accounting, and department approval.

4301 Advanced Accounting I (3-0)

A study of special problems of partnership accounting, business combinations, consolidated financial statements, accounting for foreign operations, and other

timely topics as appropriate. *Prerequisite:* ACCT 3322.

4304 Auditing Principles and Procedures (3-0)

A study of the professional auditor's opinion formulation process, professional standards and ethics, audit procedures, and other engagements requiring reports by CPAs. *Prerequisites:* ACCT 3320 and ACCT 3322.

4305 Not-for-Profit Accounting (3-0)

An examination of the accounting and reporting procedures of governmental and other not-for-profit organizations, including state and local governments, universities, hospitals, and others. *Prerequisite:* ACCT 3322.

4320 Accounting for Hospitality/Tourism (3-0)

Accounts and internal control systems in the international hospitality/tourism industry are examined. Topics include acquisition of long-term assets, budgeting, cost analysis, lease-purchase decisions, and performance incentive systems. *Prerequisites:* ACCT 2301, ACCT 2302 and ACCT 3314 each with a grade of "C" or better.

4321 Advanced Cost Accounting (3-0)

Advanced studies in cost management systems, capacity utilization, performance measurement, capital budgeting, transfer pricing, quantitative techniques, and other selected topics as appropriate. *Prerequisite:* ACCT 3323 with a grade of "C" or better, or ACCT 3314 with a grade of "B" or better, or ACCT 5311.

4325 International Accounting (3-0)

A study of comparative international accounting systems, accounting practices, and problems of multi-national enterprises, and the institutions and environments that affect them. *Prerequisite:* ACCT 3314 with a grade of "B" or better, or ACCT 3321 with a grade of "C" or better.

4328 Federal Income Tax - Partnerships and Corporations (3-0)

A study of the Internal Revenue Code and Regulations pertaining to partnerships and corporations, federal taxation of international-related transactions, gift and estate taxes, and federal income taxation of fiduciaries; including preparation of related tax returns. *Prerequisite:* ACCT 3327.

4396 Internship (0-0-3)

A practicum in accounting under the supervision of accounting practitioners. This course may count as a business elective or a free elective but not as an accounting elective in the accounting degree. The course grade counts towards the business GPA but not the Accounting GPA. The internship must be completed prior to the last full semester of accounting coursework. *Prerequisites:* Completion of 6 hours of upper-division business courses and 6 hours of upper-division accounting courses, which must include ACCT 3321; a minimum upper-division business GPA of 3.0, a minimum upper-division accounting GPA of 3.0, and department approval.

4398 Independent Study in Accounting (0-0-3)

Prerequisites: ACCT 3322 and department approval.

See the *Graduate Catalog* for graduate programs and courses.

Business Law (BLAW)

3301 Legal Environment of Business (3-0)

A study of the legal and ethical environment of business to provide a legal foundation for careers in business or government. BLAW 3301 or BLAW 5306, but not both, may be counted toward degrees awarded in the College of Business Administration.

4325 International Business Law (3-0)

Legal environments in which international business operates; litigation and arbitration of international disputes; transfer of capital and technology regulations; impact of antitrust and taxation laws on international business transactions; legal structure and powers of overseas business organizations; patent, trademarks, and copyright aspects of international business transactions. *Prerequisites:* BLAW 3301 or instructor approval and department approval.

4391 Business Law (3-0)

A study of the Uniform Commercial Code and the study of legal principles of agency, partnerships, and corporations, including security regulations. *Prerequisite:* BLAW 3301 or BLAW 5306.

See the *Graduate Catalog* for graduate programs and courses.



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Economics and Finance

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CHAIRPERSON: Timothy P. Roth
PROFESSORS: Fullerton, Roth, Sprinkle, Varela
PROFESSOR EMERITUS: Dilmus D. James ASSOCIATE
PROFESSORS: Elliott, Holcomb, Johnson, Schauer, Smith
ASSOCIATE PROFESSOR EMERITUS: Robert D. Tollen
ASSISTANT PROFESSORS: Ashby, Devos, Wei, Xie
LECTURERS: Gamez, Hammitt, Voy

Economics

BA Degree

Specific requirements for the economics major are ECON 2303, 2304, 3302, 3303, 3320, and twelve additional hours of economics; MATH 2301; and a statistics course offered by either the College of Business Administration or the Department of Mathematical Sciences. Students majoring in Economics and minoring in Business may not take free electives in the College of Business Administration.

General Prerequisite: A 2.0 cumulative GPA and Junior standing for all 3300 or 4300-level courses.

Economics (ECON)

1301 Basic Issues in Economics (3-0)

(ECON 1301)

The course is designed to expose non-business majors to a broad range of economic issues and policies. The course will emphasize current trends in economic thought and selected topics of current interest. May not be taken for credit toward any degree plan in the College of Business Administration.

2303 Principles of Economics (3-0)

(ECON 2301)

A survey of the basic principles of economics designed to give a broad understanding of the economy; primary attention is given to aggregate problems and issues considered of particular importance to the nation. *Prerequisite:* MATH 1320, MATH 1409, or MATH 1508 with a grade of "C" or better.

2304 Principles of Economics (3-0)

(ECON 2302)

A survey of basic principles of economics designed to provide an analytical understanding of markets, prices, and production. *Prerequisite:* MATH 1320, MATH 1409, or MATH 1508 with a grade of "C" or better.

Indicates Texas Common Course Number (TCCN)

3302 Intermediate Macroeconomic Theory (3-0)

A study of national income accounting and theory; emphasis is placed on the classification and analysis of conventional spending sectors and their effect on income and employment; a critical survey of policy applications that affect the level of income and employment. *Prerequisites:* ECON 2303 and (1) MATH 1320, (2) MATH 1409, (3) MATH 1410, or (4) MATH 1508.

3303 Intermediate Microeconomic Theory (3-0)

A study of cost, demand, and price theory; the concepts, assumptions, and policy implications of aspects of particular equilibrium and general equilibrium theory; a critical survey of various concepts of the scope, methods, and approaches to economics. *Prerequisite:* ECON 2304.

3320 Money and Banking (3-0)

A description of the history and present characteristics of the money and banking structure of the United States. Special emphasis is placed on monetary policy as it affects the level of economic activity. *Prerequisite:* ECON 2303.

3334 Regional Economics (3-0)

Location theory, factors influencing regional growth and techniques of analysis. Description of economic regions and analysis of interaction among economic regions. *Prerequisites:* ECON 2303 and ECON 2304.

3335 Urban Economics (3-0)

Investigation of economic forces in metropolitan areas. Topics covered include urban growth patterns, metropolitan economic performance, real estate markets, local public finance, and location theory.

3351 Industrial Organization and Government Policy (3-0)

A study of the impact of government policy on the economy, emphasizing effects of governmental regulation on manufacturing and service industries, public utilities, and other segments of the economy. *Prerequisite:* ECON 2304.

3366 Economics of Latin America (3-0)

Considers economic theory and current problems of monetary and fiscal policy, regional economic integration, land reform, export patterns, and industrialization. The emphasis is institutional rather than analytical.

3367 Economic Development (3-0)

A course concerned with problems of economic growth in the less developed countries. Consideration is given to patterns and problems of human and material resource utilization, capital formation, investment criteria, inflation and the development of innovative techniques. Emphasis is placed on the application of analytical concepts to the problems of economic development.

3372 Mathematical Economics (3-0)

Basic concepts and operations of mathematical logic and their application to economic analysis. *Prerequisites:* ECON 2303 and ECON 2304.

3373 Introduction to Econometrics (3-0)

An introductory course designed to acquaint the student with the basic concepts employed in model building, different types of economic models, problems and techniques of quantifying models, and the use of such models for public and business policy. *Prerequisites:* ECON 2303 and ECON 2304.

3380 History of Economic Thought (3-0)

A study of the development of principal economic doctrines and schools of economic thought. *Prerequisites:* ECON 2303 and ECON 2304.

4325 International Economics (3-0)

Principal theories of international trade: foreign exchange markets, international capital flows, barriers to trade, international economic institutions, and the economics of regional trade integration. *Prerequisites:* ECON 2303 and ECON 2304.

4330 Public Sector Economics (3-0)

Financial administration by agencies of local, state, and federal government; principles of taxation; sales, property, income, and inheritance taxes; analysis of government expenditures and the public credit. *Prerequisites:* ECON 2303 and ECON 2304.

4340 Economics of Labor (3-0)

A study of the basic principles, historical background, and characteristics of labor markets; theories of wages, wage structures, collective bargaining, and the role of government in labor problems. *Prerequisite:* ECON 2304.

4368 Economy of Mexico (3-0)

A survey of the growth and change of the Mexican economy. Emphasis is placed on the description and analysis of recent and current economic policy.

4398 Independent Study in Economics (0-0-3)

Prerequisite: Department approval.

See the *Graduate Catalog* for graduate programs and courses.

Finance (FN)

2350 Managing Entrepreneurial Finance (3-0)

This course develops basic financial management concepts and applies them to the start-up, operation, expansion, and sale of small business firms. The principles of

accounting, economics, finance, and management will be combined to provide the student with the essentials for obtaining and managing the finances of a small business. Completion of this course will prepare future entrepreneurs with the skills required to successfully manage the financial challenges of a small company. The teaching approach will combine lectures, case studies, presentations by regional practitioners, and classroom discussion. This course is a core course in the Entrepreneurship Certification Program.

3310 Business Finance (3-0)

An introduction to the concepts of finance as applied in a business environment. Topics typically covered include financial environment, time value of money, valuation, capital budgeting, capital structure, and working capital management. *Prerequisites:* ACCT 2301 and MATH 1320 or MATH 1409 or MATH 1410 or MATH 1508, each with a grade of "C" or better.

3315 Investments (3-0)

Introduction to the analysis of investment media, means of purchasing and selling securities, and personal investment decision-making. Emphasis is given to determinants of growth, safety, and income and to problems involved in achieving objectives. *Prerequisite:* FIN 3310.

3325 Money and Capital Markets (3-0)

Analysis of the instruments and institutions of the money and capital markets and emphasis on the roles of these markets in the economy. *Prerequisite:* ECON 3320.

3350 Personal Financial Planning (3-0)

A study of modern financial management from the personal point of view. Budgeting, uses of savings, consumer credit, forms of insurance, and estate planning are among the topics discussed.

4310 Managerial Finance (3-0)

The development and utilization of financial plans, policies, and practices in business enterprises. Particular emphasis is given to illustrative problems and cases. *Prerequisite:* FIN 3310.

4311 Commercial Bank Management (3-0)

The theory and practice of bank asset and liability management in the context of a liquidity-profitability conflict. *Prerequisites:* ECON 3320 and FIN 3310.

4312 Current Issues in Banking (3-0)

An analysis of current problems in commercial banking from the points of view of the banks, their regulators, and the public. *Prerequisite:* FIN 4311 or department approval.

4315 Investment Management and Security Markets (3-0)

A study of investment management policies for individuals and institutions and the operation of organized security exchanges and the over-the-counter market. *Prerequisite:* FIN 3315.

4316 Speculative Markets (3-0)

A study of the nature, functions, and applications of the various futures and options markets and contracts. Basis, long and short term hedging, spreading, and normal and inverted markets are examined, along with theoretical considerations. *Prerequisite:* FIN 3310.

4318 Financial Statement Analysis (3-0)

An inquiry into the techniques of analysis of financial statements as an aid to extraction and evaluation of information for interpretation and decision-making by lenders, investors, and others. *Prerequisite:* FIN 3310.

4324 Finance for Hospitality/Tourism (3-0)

Financial management and revenue maximization in the international hospitality/tourism industry are covered. Topics include interpretation and analysis of financial statements, forecasting, budget preparation and application of Cost-Volume-Profit and Yield Management models. *Prerequisite:* FIN 3310 with a grade of "C" or better.

4325 International Finance (3-0)

A study of international monetary problems, financing of the flow of goods and services among nations, and balance of payments considerations. *Prerequisite:* ECON 3320.

4328 Central Banking (3-0)

A study of the history, economic functions, operating techniques, and policies of central banks. Emphasis is given to concurrent problems of monetary policy and control. *Prerequisite:* ECON 3320.

4396 Internship in Finance (0-0-3)

Exposure to the application of financial management and/or investment topics in a business environment. *Prerequisites:* FIN 3310, three additional hours of Finance, department approval, and a 3.0 cumulative GPA.

4398 Independent Study in Finance (0-0-3)

Prerequisite: Department approval.

See the *Graduate Catalog* for graduate programs and courses.



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ASSISTANT PROFESSORS: Mukhopadhyay
LECTURERS: Ghosh, Kesh, Tahiliani

Computer Information Systems (CIS)

2320 Introduction to Computers and Computer Application Software (3-0)

(*) BCIS 1305)

This literacy course introduces the student to the essentials of computer hardware and software. The personal computer operating system and applications such as spreadsheet, database, Internet browsers, and e-mail are discussed. Emphasis will be placed on spreadsheet and database to solve typical business problems. The student will learn data sharing between applications.

3301 Introduction to Business Applications Programming (3-0)

This course introduces the student to programming in the most widely used computer language: Cobol. Emphasis will be on good programming practice, following top-down, modular, structured program design development, testing, implementation and documentation of business problems. Web design, using Cobol as the implementation programming language, will also be introduced.

3325 Advanced Microcomputer Business Applications (3-0)

The advanced use of popular application software including Excel, Access, and VBA in solving a variety of business problems. The course is designed to provide the students with an advanced set of skills on the software and in decision making through the efficient management of information and problem solving. VBA is covered in a way of automating and improving the functionality within the Microsoft Office suite. A term project involves development of application in the student's area of interest that links the power of database, spreadsheet and other such packages. *Prerequisite:* CIS 2320 with a grade of "C" or better.

3345 Management Information Systems (3-0)

This course integrates both computer concepts and information systems concepts, and provides a strong managerial emphasis focusing on the impact of technologies in different environments. The course provides the fundamentals of management of information systems including organizational, global and strategic issues. *Prerequisite:* Department placement exam.

3350 Business System Analysis and Design (3-0)

A study of the systems analyst in a business environment. Coverage of the tools, techniques, and procedures used to conduct an analysis of the business system including prototyping, CASE, and 4GL. This course will emphasize the design phase of systems analysis projects. *Prerequisites:* (1) CIS 3301 or CIS 2335 or (2) CIS 3345, and ACCT 3320.

3355 Business Data Structures and Business Programming (3-0)

Logical programming concepts such as data types, loops, functions, arrays, and pointers are examined. Physical data structures such as linked lists, queues, stacks, and trees are investigated. Management of files on secondary storage devices is studied. *Prerequisite:* CIS 3301 or CIS 2335.

3380 Programming with Visual Basic (3-0)

This introductory course in the Visual Basic programming language and environment provides an understanding of fundamental programming concepts required to develop end-user business applications in object-oriented, event driven environments. Integration and interaction of Visual Basic with other application tools will be explored. *Prerequisite:* CIS 3355.

3385 Advanced Business Application Programming (3-0)

All advanced features of COBOL programming language are examined including analysis of sequential, indexed and relative, file processing systems. Also covered are sort

and merge techniques, table processing and utilities. Emphasis is placed on writing modular programs introducing Object-Oriented Cobol and focusing on the use of object-oriented design strategies in a COBOL environment. Also included will be a Web-based approach to an interactive update assignment. *Prerequisite:* CIS 3301 or CIS 2335.

4305 Advanced Business Systems Development (3-0)

The application of concepts acquired in systems analysis and design. Students will analyze the needs of an organization and design an information system for that organization. Particular emphasis will be placed on the need for auditing and control of that system. Coverage will include dealing with problems of installation and security. *Prerequisite:* CIS 3350.

4320 Object Oriented Programming Environment (3-0)

Object-oriented concepts will be used to solve real world business problems. Strong emphasis will be placed on hands-on structured programming. Concepts such as pointers, strings, files, and structures will be briefly reviewed. The course will focus on the concept of classes, function and operator overloading, inheritance, and virtual functions. Data structures will be discussed.

Prerequisite: CIS 3335.

4326 Hospitality Technology and Applications (3-0)

Systems and technology to manage information in the hospitality/tourism industry are examined. Topics include data management, implementation, the impact of information systems on hospitality organizations, and use of the internet as a marketing and management tool. *Prerequisite:* CIS 3345 with a grade of "C" or better.

4330 Expert Systems and Decision Support Systems (3-0)

A study of artificial intelligence, expert systems, and decision support systems concepts and technologies applied to cover development, implementation, and management of expert systems and decision support systems for business organizations. Tools such as languages, shells, and hardware for utilizing artificial intelligence in designing expert systems and decision support systems are covered. *Prerequisites:* (1) CIS 3301 or CIS 2335, or (2) CIS 3345, and ACCT 3320.

4365 Database Management (3-0)

The course introduces students to issues related to database and database management systems (DBMS). Students gain technical backgrounds in planning, analysis, logical design, physical design, implementation, and maintenance of a database. Students are provided hands-on training in database design, development, and implementation using a relational DBMS software. Emphasis is placed on the problems and issues of managing in a database environment. *Prerequisites:* (1) CIS 3355 or (2) CIS 3345, and ACCT 3320. CIS 3355 may be taken concurrently with CIS 4365.

4368 Advanced Database Management (3-0)

This course is an extension of the first Database Management course with a focus on development of advanced, multi-user and distributed database applications using Report Builder or another SQL front-end package. The course emphasizes hands-on project work. Students will learn PL/SQL triggers and procedure builders, how to develop integrated database applications, and how to create Web applications. *Prerequisites:* CIS 3355 and CIS 4365.

4370 Business Data Communications (3-0)

An introduction to network components, transmissions links, link control, protocols, network typologies, error detection and correction methods, network management and security, local area networks, electronic commerce, virtual private networks, and use of the Internet in business. *Prerequisite:* CIS 3355.

4375 Introduction to Electronic Commerce (3-0)

The course will combine Electronic Commerce (e-commerce) business and technical state-of-the-art topics and introduce students to these issues in order to facilitate their participation and involvement in the e-commerce area. The course will cover, among others, Web-based tools for e-commerce, e-commerce software, and infrastructure. Students will gain hands-on experience in designing e-commerce Web sites using appropriated software. *Prerequisite:* CIS 4365 with a grade of "C" or better, or department approval.

4396 Internship in Computer Information Systems (0-0-3)

To be arranged with the prior approval of the instructor and the department chairperson.

4398 Independent Study in Computer Information Systems (0-0-3)

The student studies a topic as a semester-long project. The project may be independent library research or a work-related task. The student must have the topic approved by the department chair and have a schedule to report progress with the instructor before work commences. *Prerequisite:* Department approval.

4399 Current Topics in Computer Information Systems (3-0)

The topics to be announced. This course may be repeated for credit as topics are changed. *Prerequisite:* CIS 3301 or CIS 2335.

See the *Graduate Catalog* for graduate programs and courses.

Operations and Supply Chain Management (OSCM)

3321 Production/Operations Management (3-0)

Production management and its relationship to marketing, finance, and accounting functions are described. Forecasting demand, aggregate planning, inventory planning and control, and scheduling provide the basis for linking strategic plans to the production plan. Other topics discussed include: quality control, product and process design, facility location and layout, productivity improvement, and project management. *Prerequisite:* OMB 2301 with a grade of "C" or better.

3322 Advanced Production/Operations Management (3-0)

Discusses the design and implementation of Advanced Manufacturing Technologies (AMT). This includes Just-in-Time (JIT) systems, cellular and Flexible Manufacturing Systems (FMS), and Computer Integrated Manufacturing (CIM). It also explores the key role that manufacturing plays in product development efforts and cross-functional teams. Other topics such as manufacturing strategy, maintenance, and the design of work systems are presented as well. Case studies and group projects/presentations are used for instructional purposes. *Prerequisite:* OSM3321.

3331 Service Operations Management (3-0)

Methods of process analysis in service organizations, methods improvement procedures, and work measurement techniques are developed to provide the basis for analyses of processes, layouts, and job design in an organization. *Prerequisite:* OSM3321.

3333 Production Planning and Control (3-0)

Material planning and control systems utilizing material requirements planning (MRP) techniques. Production planning, master production scheduling, MRP, capacity requirements planning and shop floor control techniques are examined from both conceptual and practical standpoints. *Prerequisites:* OSM3322 and QMB 3301. OSM 3322 may be taken concurrently with POM3333.

3335 Project Management (3-0)

Various aspects of project management from conception and planning to project control and termination are discussed. Topics include: project scheduling, precedence diagramming, PERT, CPM, budgeting, and project management information systems. Organizational and conceptual issues such as project team development and management structure will be addressed. *Prerequisites:* OSM3321 and QMB 3301.

3336 Inventory Management (3-0)

A study of the concepts, principles, problems, and procedures involved in managing inventories of raw materials, work-in-process, finished goods, and supplies. Some emphasis will be placed on the formulation and application of models for the analysis and replenishment of inventories. Implications for inventory management of material requirements planning and just in time systems will also be discussed. *Prerequisite:* OSM3322. OSM3322 may be taken concurrently with POM3336.

3337 Business Logistics (3-0)

Analysis of logistics concepts, activities, and decisions necessary to plan, implement, and control the private and public physical distribution of goods and services. The focus and emphasis of the course is on physical, human, informational, global, and organizational system components. The course includes such logistics topics as inventory, facility location, warehousing, traffic and transportation, materials handling, packaging, order processing, customer service, and global logistics. *Prerequisite:* OSM3321.

3339 Quality Planning and Control (3-0)

A study of the most effective methods for improving product and process quality in manufacturing and service operations. The course covers the following topics: statistical control charts, quality auditing, Japanese QC tools, process capability, loss functions, statistical tolerances, and experimental design. Statistical computer software will be used. *Prerequisite:* OSM3321.

3390 Internship in Production/Operations Management (0-0-3)

A practical and on-site experience is an essential aspect of the learning process for POM students. A practical experience in a service operations/manufacturing enterprise will be emphasized. The student will be required to write a paper in a relevant topic agreed upon with the supervising faculty. *Prerequisites:* OSM3321 and an advanced elective course in OSM.

4371 Transportation and Warehousing Systems (3-0)

Role of transportation systems in economic activity, emphasis on modes of transportation analysis and planning, and the management of transportation systems in supply chains. Administration of warehouse and terminal functions in logistics systems, with analysis of customer service, forecasting, investment, design, and operation activities. *Prerequisite:* OSM3321.

4375 Operational Models for Supply Chain Management (3-0)

An examination of some of the major operational concepts and issues relating to the flow of materials, goods, services, and information through a company's supply chain-the network of organizations that supply and transform materials and distribute final products to customers. The course seeks to provide an understanding of the importance of individual components (suppliers, manufacturers, distributors, and customers) in the operation of the supply chain. It will emphasize inventory-service level tradeoffs, risk pooling, and other operational concerns. Some of the more recent approaches designed for the effective and efficient operation of the supply chain will be discussed. *Prerequisites:* OSM3321, QMB 3301 and CIS 3345.

4398 Independent Study in Production/Operations Management (0-0-3)

The student studies a topic as a semester-long project. *Prerequisites:* OSM3321 and department approval.

Quantitative Methods in Business (QMB)

2301 Fundamentals of Business Statistics (3-0)

Introduction to statistical techniques as applied to business data. Included are descriptive statistics, measures of central tendency and variation, probability distributions, sampling theory, hypothesis testing, and regression and correlation analysis. A major effort is devoted to computerized solution techniques to provide managerial information. *Prerequisite:* MATH 1320 or MATH 1409 or MATH 1410 or MATH 1508.

3301 Quantitative Methods in Business (3-0)

QMB 2301 Quantitative Methods in Business (3-3)

Introduction to quantitative methods applied to business decision making. These methods include linear, integer, and goal programming, network analysis, and transportation linear programming. A major effort is devoted to computerized solution techniques to provide managerial information. *Prerequisite:* QMB 2301.

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Marketing and Management

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ASSISTANT PROFESSORS: Garcia, Khorram, Marsh, Mendoza, O'Connor, O'Donnell,
LECTURERS: Grambling

Business (BUSN)

3304 Global Business Environment (3-0)

An examination of the issues confronting business enterprises in the global economy. Topics will include understanding cultural and ethical issues; the influence of social, political, and economic systems; and the impact of environmental and technological issues in the perspective of a global business environment. *Prerequisite:* COMM 1301 or COMM 1302 each with a grade of "C" or better and MKT 3300.

Management (MGMT)

3303 Introduction to Management and Organizational Behavior (3-0)

An introduction to the management functions of planning, organizing, leading, and controlling. Emphasis will be given to organizational behavior concepts, international business, ethical issues, and quality management perspectives. *Prerequisite:* PSYC 1301 or SOCI 1301.

3304 Advanced Organizational Development (3-0)

The concepts, values, underlying assumptions, and intervention techniques that are common in the practice of organizational development and change are presented. *Prerequisite:* MGMT 3303.

3306 Entrepreneurship (3-0)

Entrepreneurship is designed to provide an understanding of the entrepreneur and the entrepreneurial process. Emphasis is on new venture planning and establishment of new firms as opposed to dealing with problems of an established business. The distinctive focus is enterprise creation.

Prerequisites: MGMT 3303 and FIN 3310.

3307 Introduction to Hospitality/Tourism (3-0)

Examination of critical areas of interest in the hotel, restaurant, and tourism industry. Students are presented with current management, industry, and organizational trends and issues within the global economy. *Prerequisite:* MGMT 3303 with a grade of "C" or better.

3311 Introduction to Human Resource Management (3-0)

This course emphasizes how to effectively utilize and manage human resources in a rapidly changing environment. Emphasis is on such topics as strategic human resource planning, staffing, performance appraisal, and compensation. Emphasis will also be placed on understanding the legal ramifications of human resource management decisions. *Prerequisite:* MGMT 3303.

3315 Employee and Labor Relations (3-0)

Study of labor law, trends in the labor movement, union structure, organizing, and collective bargaining processes. Preparation for and handling of negotiations. Grievance and discipline handling in both union and non-union organizations. Arbitration, decertification, and managing in a non-union environment. *Prerequisite:* MGMT 3311.

3320 Small Business Management (3-0)

Focuses on the analysis, operation, and management of small business. Provides practical experience working with small business and entrepreneurial opportunities in the community. Investigates marketing production and administrative functions to develop over-all managerial awareness and analytical skills in small business problem solving. *Prerequisites:* ENGL 3355, MGMT 3303, and ACCT 2301.

4300 Strategic Management (3-0)

Integration of accounting, business law, finance, human resources, production management, and marketing to solve management problems. *Prerequisites:* Graduating Seniors only, overall GPA of 2.0 or better, business GPA of 2.0 or better, FIN 3310, MGMT 3303, MKT 3300, POM 3321, and for Accounting majors, a 2.0 or better GPA in all hours attempted in the following courses: ACCT 3321 and accounting courses listed in the Accounting Option Requirement.

4304 Human Resource Training and Development (3-0)

The course is an intensive study of the procedures utilized by organizations to facilitate the learning process to assure that these efforts result in the achievement of organizational goals and objectives. Emphasis is given to such topics as learning theory, training and development methods, evaluation, and administration. Experiential exercises are utilized to facilitate the application of theory to organizational practices. *Prerequisite:* MGMT 3311 or MGMT 3315.

4306 Franchising (3-0)

Franchising investigates the advantages and potential risks that must be considered before making an investment in a franchise business. There is particular emphasis on the discovery and evaluation of the franchiser and the feasibility of entrepreneurs converting an existing business into a franchise chain or creating and selling new business concepts. *Prerequisites:* MGMT 3303 and FIN 3310.

4310 Employment Law and Dispute Resolution (3-0)

Consideration of the full impact of federal and state employment and labor laws on employer-employee relations. Specific subject matter includes job discrimination, minimum wage and overtime, lawful terminations, job safety and health regulations, employment of aliens, workmen's compensation, and substance abuse in the work place. Recognition and management of problem situations will be covered. *Prerequisite:* MGMT 3311 or MGMT 3315.

4315 Human Resource Staffing and Planning (3-0)

A study of the staffing process in organizations. Primary emphasis on job analysis and the use of human resource information systems in the planning, recruitment, selection, and appraisal activities. *Prerequisite:* MGMT 3311 or MGMT 3315.

4325 International Management (3-0)

A study of the differences in managerial processes in organizations having international operations with an emphasis on traditional managerial activities. It is a cross-cultural approach to the study of management using the United States as a point of reference. *Prerequisite:* MGMT 3303.

4337 Compensation and Employee Benefits (3-0)

This course examines the goals of the organization in the employment of human resources and its use of reward systems in the motivation of goal-oriented behavior. Topics included are job evaluation systems, merit pay, and employee benefits. Legal aspects of pay administration such as wage and hour laws and ERISA will be covered. *Prerequisites:* MGMT 3311 or MGMT 3315 and department approval.

4338 Hospitality/Tourism Law (3-0)

Domestic and international legal aspects of the innkeeper/restaurant/entertainment-guest relationship and property law with particular emphasis on personal and property liability. *Prerequisite:* MGMT 3307 with a grade of "C" or better.

4339 Human Resources for Hospitality/Tourism (3-0)

Planning for the management of human resources in the hospitality/tourism industry. Recruitment, selection, and evaluation of employees, job analyses and descriptions, labor-management relations in the hospitality/tourism industry, labor-related visas, and government regulations are examined. *Prerequisites:* MGMT 3303 and MGMT 3307 each with a grade of "C" or better.

4395 Internship in Hospitality/Tourism (0-0-3)

Corporate internship that rotates through various hotel, restaurant, or tourism organization departments or focuses on specific areas such as human resources, information systems, or financial systems within one hospitality/tourism organization. Seminars and reports required. *Prerequisite:* Department approval.

4396 Internship in Management (0-0-3)

A course designed to give a business major practical work experience. *Prerequisites:* MGMT 3303, three hours of MGMT courses beyond 3303, and department approval.

4398 Independent Study in Management (0-0-3)

Individualized instruction in a particular issue in management. The nature and scope of the study is arranged with a faculty member. *Prerequisites:* MGMT 3303 and department approval.

4399 Current Topics in Management (3-0)

Topics to be announced. This course may be repeated for credit as topics are changed. *Prerequisites:* MGMT 3303 and department approval.

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Marketing (MKT)

3300 Principles of Marketing (3-0)

A description and analysis of the ways in which goods move to points of consumption. Topics studied include functions, institutions, the marketing environment, markets, and government regulation. *Prerequisites:* ACCT 2301 and junior standing.

3302 Consumer Behavior (3-0)

This course emphasizes the psychological and sociological aspects of both industrial and consumer buyer behavior. Topics range from basic motivation and learning theory to group dynamics with applications to the formulation of marketing strategy. *Prerequisite:* MKT 3300.

3320 Advertising and Sales Promotion (3-0)

The planning, execution, and evaluation of advertising and sales promotion activities to stimulate customer demand. *Prerequisites:* MKT 3300 and MKT 3302.

4301 Marketing Research (3-0)

Scientific methods of analysis and statistical techniques are employed in solving marketing problems. Emphasis on collection of information from internal and external sources; analysis, interpretation, and presentation of research findings. *Prerequisites:* (1) MKT 3302, and QMB 2301 or (2) graduate standing.

4304 Electronic Marketing (3-0)

This course examines Web-based communication, direct selling through electronic commerce, and internet based promotional communications. *Prerequisite:* MKT 3300.

4305 Selling and Sales Management (3-0)

Presents the techniques of effective personal selling; the function and duties of the sales representative; and the task of sales management in staffing, training, and motivating the sales force. *Prerequisite:* MKT 3300 or graduate standing.

4307 Multi-Cultural Marketing (3-0)

Emphasis is placed upon the consumer diversity evidenced in the U.S. marketplace and the corresponding market segmentation opportunities. The course focuses on developing marketing strategies targeting Hispanic consumers and other significant culture-based consumer groups. *Prerequisite:* MKT 3300.

4308 Real Estate Principles (3-0)

A survey course, designed to introduce the basic concepts of real estate law, appraisal, finance, investment, and brokerage. *Prerequisite:* MKT 3300 or graduate standing.

4310 Principles of Retailing (3-0)

Analysis of retail store management including personnel requirements and career opportunities with emphasis on modern methods in buying, receiving, pricing, merchandise and financial control, sales promotion, and customer. *Prerequisite:* MKT 3300 or graduate standing.

4320 Hospitality/Tourism Marketing (3-0)

Application of marketing fundamentals to the hospitality/tourism industry. Market segmentation and target marketing, competitive analysis and demand analysis, positioning, relationship marketing, and marketing planning are covered. Emphasis will be on the identification of hospitality/tourism opportunities and the development of effective marketing plans. *Prerequisite:* MKT 3300 with a grade of "C" or better.

4325 International Marketing (3-0)

Emphasis is placed upon the marketing function from the viewpoint of the marketing manager who must recognize differences in market arrangement and in legal, cultural, and economic factors in different countries. Areas covered include planning and organizing for international operations, interrelationships with other functions, product strategy, pricing, promotion, channels, and financial aspects of international marketing. *Prerequisite:* (1) MKT 3300 or (2) graduate standing.

4340 Special Events Marketing Management (3-0)

Design and implementation of marketing management strategies and tactics for sports and entertainment events. Topics include human resource planning, customer service, facility, ticket and concession operations, legal issues, demand analysis and capacity utilization, budgeting and financial administration, sales, merchandise marketing, and promotion. *Prerequisite:* MKT 3300 and MGMT 3307 each with a grade of "C" or better.

4390 Business to Business Marketing (3-0)

Focuses on marketing products and services to organization producing consumer or industrial goods and services. Emphasis is placed upon the characteristic features of industrial and institutional demands that set the environment within which the industrial marketer must cope. *Prerequisite:* MKT 3300 or graduate standing.

4391 Services Marketing (3-0)

This course integrates concepts from other marketing areas to adapt them to services marketing. The focus is on the unique properties of services. A distinctive approach to services marketing strategy development and execution is examined. *Prerequisite:* (1) MKT 3300 or (2) graduate standing.

4395 Strategic Marketing Management (3-0)

An integrating course in marketing systematically oriented with emphasis on the marketing mix, and special attention to market analysis, marketing information, and sales forecasting. *Prerequisites:* MKT 4301 and FIN 3310.

4396 Marketing Internship (0-0-3)

Designed to provide practical work experience in marketing. To be taken during the senior year with permission of the internship advisor and the department chairperson. *Prerequisites:* MKT 3302, other relevant coursework, and department approval.

4398 Independent Study in Marketing (0-0-3)

Individualized instruction in a particular issue in marketing. The nature and scope of the study is arranged with a faculty person. *Prerequisites:* MKT 3302 and department approval.

4399 Current Topics in Marketing (3-0)

Topics to be announced. This course may be repeated for credit as topics are changed. *Prerequisites:* (1) MKT 3302, other relevant coursework, and department approval.

See the *Graduate Catalog* for graduate programs and courses.



Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

College of Engineering

Engineers enjoy one satisfaction that not everyone can claim—they can point to tangible evidence of their efforts. Every modern structure, computer, jet aircraft, power-generating plant, or new automobile design is a lasting testimonial to the engineers responsible for it. Thus, to a great extent, our current standard of living and high level of technology are due to the diligent and innovative efforts of engineers. Future accomplishments could help increase energy and food supplies, develop more contamination-free power plants, aid in medical science's fight against disease, and expand our computational and design skills beyond imagination. A noted researcher once summarized the engineer's career satisfaction by pointing out that while scientists "explore what is," engineers "create what never has been."

The future for engineering graduates remains very bright. Our rapid pace of technological and industrial developments has established an ever-increasing need for highly talented and qualified professional engineers. In addition, the increasing demand for goods and services has imposed new challenges to present and future engineers. To provide these things and, at the same time, conserve resources and minimize environmental impact, engineers must recognize that solutions to long-standing societal problems are only found by thorough planning and study. With a capacity for problem solving, engineers may be the best-qualified persons to address society's problems.

The complexities of today's economy and environment are such that all resources must be used in an optimal manner. Thus, the College of Engineering, through its curricula, strives to educate and train engineers who have the desire to learn and the breadth of vision to formulate and solve the problems of today and tomorrow. It is expected that a student who applies himself or herself and successfully completes one of the engineering or computer science programs will not only be technically prepared but also broadly educated, and thus ready to make a significant contribution.

The College offers many programs of study that should be selected on the basis of personal ambitions, interests, and abilities. The student may choose the traditional BS degree and also consider advanced research-oriented graduate programs leading to the MS and PhD degrees. Within the College, the undergraduate programs in civil, electrical, industrial, mechanical, and metallurgical and materials engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012; telephone: (410) 347-7700. The breadth of modern computer technology is covered by BS and MS degrees in Computer Science and a computer engineering concentration in Electrical and Computer Engineering. The program leading to the BS in Computer Science is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012; telephone: (410) 347-7700.

To recognize outstanding achievement and encourage professional activities, each program has one or more active student sections of the appropriate professional and honor societies. Additionally, there are campus chapters of professional societies that cover all fields of engineering. Participation in these groups provides a valuable educational and professional experience and students are encouraged to participate to the extent of their eligibility.

College Vision Statement

The Vision of the College of Engineering at the University of Texas at El Paso is to change the face of engineering.

College Mission Statement

The Mission of the College of Engineering at the University of Texas at El Paso is access to excellence.

Mathematics Preparation

In addition to the usual preparatory work, applicants to the College of Engineering are expected to have at least two years of algebra, one year of geometry, and one semester of trigonometry or Pre-Calculus in preparation for their freshman year.

Transfer Course Work

A student may transfer a maximum of 66 semester hours, limited to lower-division courses, from two-year junior or community colleges. A maximum of 100 semester hours of courses is transferable from accredited U.S. colleges and universities. Transfer credit for engineering courses is restricted to ABET-accredited curricula or is awarded on the basis of departmental recommendation. Transfer students may be required to take competency exams and/or take specified courses that the department feels they must have in order to establish the quality of their degree. Credit for upper division engineering courses will be given only on the basis of departmental recommendation.

The academic records of all transfer students are reviewed by the College of Engineering to determine eligibility for admission into an engineering program. International students must meet the additional requirement of an overall minimum GPA of 3.0 in mathematics, chemistry, physics, and engineering for all institutions attended.

All transfer credit that is to be applied toward undergraduate engineering degree requirements must be approved by the Dean of Engineering. Transfer credit evaluation should be completed when the student transfers to the College or before completion of the lower-division requirements.

Change of Major

1. All petitions for change of major to or within the College of Engineering are subject to the approval of the head of the program gaining the student.
2. Any student enrolled in a non-engineering program at the University may change his or her major to a program in the College of Engineering if he or she has demonstrated an aptitude for the engineering or computer science profession and is qualified to enroll for MATH 1411 in his or her first semester of engineering or computer science.

3. Any student enrolled in an engineering program at the University may change his or her major to another program in the College of Engineering if he or she has a minimum overall GPA of 2.0 and earned a minimum GPA of 2.0 in the semester previous to applying for the change of major.
4. All students entering the College of Engineering must follow the catalog (or a later catalog) that is in effect at the time of their transfer.

Lower-Division Program

1. A student entering the College of Engineering must complete the designated lower-division course block prior to enrolling in the upper-division engineering or computer science sequence or any junior/senior classes. The lower-division course block is comprised of English, science, engineering, and mathematics courses listed in the freshman and sophomore years.
 - a. Enrollment in upper-division courses prior to completion of the lower-division requires permission of the student's program head.
 - b. Substitutions of lower-division course requirements require the permission of the student's program head.
2. Completion of the lower-division block also requires a minimum 2.0 GPA for the lower-division courses designated by the program and a "C" or better in certain specified courses.
3. Any student who does not satisfy the "C" minimum rule in the appropriately designated courses must repeat those courses.
4. Any student who has not met the requirements for satisfactory completion of the lower-division block as stated above or who fails to make satisfactory progress toward a degree will be denied subsequent enrollment in the College of Engineering.

Pre-Engineering Program

The Entering Students Program for Engineering and Science

Circles of Learning for Entering Students (CircLES)

Program Description

Circles of Learning for Entering Students (CircLES) is a comprehensive retention program targeting first-time freshman and first-time transfer students in the sciences, engineering and mathematics (SEM). The goals of CircLES are to increase retention, improve academic performance, and add value to a student's education through the creation of an environment where students make connections with the university, the colleges, faculty, upper-division students, and their peers. A learning environment is emphasized in the first year where entering students can be successful and begin to develop lifelong learning habits. There are four major foci within the CircLES Program, all coordinated by the Director of the Entering Student Program: 1) a mandatory college-specific orientation program in the summer prior to matriculation; 2) mandatory placement in learning communities (clusters) in the first year; 3) strong developmental advising and early intervention; 4) leadership development. Since its inception, the CircLES program has become recognized as a model on campus and elsewhere for creating a strong foundation for entering students to springboard them toward a successful college and (eventually) professional career.

Students wishing to major in engineering or computer science will be classified as pre-engineering students for not less than one semester after admission to the University. Students must fulfill all Pre-Engineering requirements and must:

1. Complete the specified orientation program.
2. Meet with a pre-engineering advisor each semester.
3. Complete an approved program of study that may include one or more of the following courses: UNIV 1301; ENGR 1100, 1300, 1400, 1401, MATH 0310, 0311, 1411, 1508; ENGL 0310, 0311, 1311, 1312. Although required for the pre-engineering program, some of these courses do not meet departmental degree requirements. Check with your CircLES advisor.
4. Maintain a minimum overall GPA of 2.0 in all designated courses.
5. Complete certain specified courses with a "C" or better.
6. Make satisfactory progress toward completion of the pre-engineering program.

Upon completion of the pre-engineering program requirements, students will petition for a change of major into a selected engineering program.

Limit on Engineering Course Enrollments

The maximum number of times an engineering or computer science course can be taken is three. All enrollments in a course that result in a grade of "A," "B," "C," "D," "F," or "W" will be counted. Once a student has reached the maximum of three enrollments, he or she will not be allowed to enroll in the course a fourth time. If the course is required in the student's degree plan, the student will not be able to complete the requirements for that degree. Once a student has obtained a "C" or better in an engineering or computer science course, that course may not be repeated for credit.

Enrollment in Engineering/Computer Science Courses by Non-Majors

Enrollment in nearly all engineering and computer science courses is restricted to students with the appropriate majors. Students from outside the engineering college wishing to take engineering/computer science courses should request permission from the head of the program offering the course.

Double Majors

Students in the College of Engineering may pursue more than one undergraduate degree. However, all requirements for each degree must be completed before the degree can be awarded.

Cooperative Education

Cooperative education is a program which integrates a student's formal academic study with special periods of practical work experience in business, industry, government, or professional or service organizations. These work experiences are an integral part of the student's education, supplementing academic knowledge and promoting and encouraging personal development and professional preparation. The academic value of work completed under the cooperative education program is recognized by allowing credit to be earned for completion of three work periods and submission of required reports. Contact the Dean of Engineering for information on the availability of co-op work assignments.

Five-Year Bachelor/Master of Science Program

The College of Engineering provides an opportunity for qualified students to participate in a five-year bachelor/master of science degree program. The program is structured to allow qualified engineering students to enter a graduate research or design program during the senior year of the bachelor's degree. During this fourth year, the student may reserve certain courses for graduate credit, work actively on a research project for nine months, or be considered for employment as a teaching or research assistant at the appropriate salary. Both the bachelor's and master's degrees can be completed in five academic years.

Graduate Study

The traditional Master of Science (MS) degree is available in civil engineering, computer engineering, computer science, electrical engineering, industrial engineering, manufacturing engineering, mechanical engineering, and metallurgical and materials engineering. This degree is research-oriented, normally requiring a thesis and up to 27 hours of graduate course work. The Master of Science in Environmental Engineering (MSEnE) and the Master of Engineering in Environmental Engineering (MEEnE) are also offered. Ph.D. degrees are offered in civil engineering, computer engineering, computer science, materials science and engineering, and environmental science and engineering.

Students who rank high in their undergraduate class should give serious consideration to developing their full intellectual potential in engineering by continuing with advanced studies at the graduate level. For those students interested in the practice of professional engineering, the Master of Science in Engineering (MSE) degree should be given serious consideration. The program involves 33 hours of coursework without a thesis. Possible areas of specialization include business management, operations research, computer science, and others. Graduate programs are more fully discussed in the Graduate Catalog.

Bachelor of Science in Civil Engineering

The Department of Civil Engineering at the undergraduate level is broadly based and provides courses in the major divisions of Civil Engineering.

Vision

The Department of Civil Engineering strives to graduate highly qualified engineers, maintain nationally recognized research and provide quality professional and community service to the region and the world.

Mission

The Department of Civil Engineering of The University of Texas at El Paso through its faculty, staff, students, and constituents works together to acquire, generate, share, and use knowledge in the different fields of Civil Engineering to make the El Paso/Ciudad Juárez region and the world a better place to live.

The Department accomplishes its mission through both undergraduate and graduate programs. The Department contributes to the quality of these programs by generating research opportunities that create synergy among faculty, students, and practicing professionals. We contribute to the quality of life of society through innovation in the generation, sharing, and use of knowledge. We will continue to be leaders in procuring external funding for research and teaching. Faculty work together within the department and with other departments in the University to provide multidisciplinary opportunities for both students and faculty.

The Civil Engineering Department recruits, retains and graduates individuals with high professional and ethical standards to work in government and private organizations. The faculty is committed to increasing and improving the quality of our graduates. The result of our work is reflected in the continuing improvement of the quality of life in El Paso and the surrounding regions through the impact that our graduates have on these communities.

Educational Objectives:

1. Graduates will be educated in the fundamental concepts of engineering and science to create intellectual curiosity in order to provide for a successful career and life-long learning.
2. Graduates will be able to design effective civil engineering systems.
3. Graduates will have the ability to function on multidisciplinary teams.
4. Graduates will serve as productive members of society and the profession by recognizing the social, ethical, environmental and political implications of engineering decisions.
5. Graduates will be able to communicate effectively to technical and non-technical audiences.
6. Graduates will have exposure to real-life problems including hands-on experience.

Freshman Year

| 1 st Semester | Hours |
|--|-------|
| BE 1301 ⁺ Introduction to Engineering..... | 3 |
| BE 1101 ⁺ Introduction to Engineering Lab..... | 1 |
| ENGL 1311 ⁺ Expository English Composition..... | 3 |
| MATH 1411 ⁺ Calculus I..... | 4 |
| Science Elective 1 ⁺ | 4 |
| UNIV 1301 or 2350 ⁺ | 3 |
| | 18 |
| 2 nd Semester | |
| BE 1205 ⁺ Graphic Fundamentals in Engineering Design..... | 2 |
| HIST 1301 ⁺ History of U. S. to 1865..... | 3 |
| ENGL 1312 ⁺ Research and Critical Writing..... | 3 |
| MATH 1312 ⁺ Calculus II..... | 3 |
| Science Elective 1 ⁺ | 4 |
| | 15 |

Sophomore Year

| 1 st Semester | |
|--|---|
| BE 2434 ⁺ Mechanics I..... | 4 |
| MATH 2313 ⁺ Calculus III..... | 3 |

| | | | |
|----------------------------------|-------------------|---|----------|
| BE | 2326 ⁺ | Engineering Economy..... | 3 |
| POLS | 2310 ⁺ | Introduction to Politics..... | 3 |
| | | Science Elective ¹⁺ | <u>4</u> |
| | | | 17 |
| 2nd Semester | | | |
| BE | 2338 ⁺ | Mechanics II..... | 3 |
| BE | 2375 ⁺ | Introduction to Thermal-Fluid Science..... | 3 |
| MATH | 2326 ⁺ | Differential Equations..... | 3 |
| HIST | 1302 ⁺ | History of the U.S. since 1865..... | 3 |
| BE | 2303 ⁺ | Introduction to Materials and Science Engineering..... | 3 |
| BE | 2377 ⁺ | Electrical Circuits and Motors..... | <u>3</u> |
| | | | 18 |
| Junior Year | | | |
| 1st Semester | | | |
| BE | 3341 | Engineering Analysis..... | 3 |
| BE | 3373 | Engineering Probability and Statistical Models..... | 3 |
| CE | 3343 | Structural Analysis I..... | 3 |
| CE | 3335 ² | Geological Engineering..... | 3 |
| CE | 3325 | Environmental Engineering Fundamentals..... | <u>3</u> |
| | | | 15 |
| 2nd Semester | | | |
| CE | 3336 | Civil Engineering Materials..... | 3 |
| CE | 3313 | Engineering Measurements..... | 3 |
| CE | 4335 | Structural Design I..... | 3 |
| CE | 4456 | Hydraulic Engineering..... | 4 |
| | | Humanities Elective ³⁺ | <u>3</u> |
| | | | 16 |
| Senior Year | | | |
| 1st Semester | | | |
| CE | 4340 | Transportation Engineering..... | 3 |
| CE | 4348 | Geotechnical Engineering..... | 3 |
| CE | 4195 | Senior Professional Orientation..... | 1 |
| CE | 4361 | Structural Design II..... | 3 |
| CE | 4188 | Senior Design I..... | 1 |
| POLS | 2311 ⁺ | American Government and Politics..... | 3 |
| | | Communications Elective ⁴⁺ | <u>3</u> |
| | | | 17 |
| 2nd Semester | | | |
| CE | 4342 | Water and Waste Water Engineering..... | 3 |
| CE | 4153 | Water and Waste Laboratory..... | 1 |
| CE | 4288 | Senior Design II..... | 2 |
| CE | 4375 | Advanced Topics in Civil Engineering..... | 3 |
| | | Visual and Performing Arts Elective ⁵⁺ | <u>3</u> |
| | | | 12 |
| Total Semester Credit Hours..... | | | 128 |

⁺ A grade of "C" or better is required in these courses.

¹ Science Elective: Each student must take PHYS 2421, and two of the three choices below:

PHYS2420

CHEM1305 and CHEM1106

² Co-listed with GEOL 3321

³ Humanities Menu

⁴ COMM 1301 or COMM 1302

⁵ Visual and Performing Arts Menu

Bachelor of Science in Computer Science

The Department of Computer Science at the undergraduate level is designed to provide a strong base in programming and problem solving skills, a theoretical understanding of computer science, and practical experience in applying the computer to the solution of problems. Specialization is provided through numerous upper-division electives.

Vision

The vision of the Department of Computer Science is to provide computer science programs of the highest quality through a participatory approach to education, research, and service to the community.

Mission

The department will provide its students with:

- a strong foundation for study and practice
- advanced knowledge of techniques, methodologies and tools
- personal skills and professional attitudes; and
- a culture that actively involves them inside and outside the classroom and that will enable them to succeed and thrive as computer scientists and in society.

The department will advance the field of computer science by supporting its faculty and students with a culture that:

- encourages exemplary, internationally recognized research
- involves graduate and undergraduate students
- fosters internal and external collaboration
- attracts external funding

The department will serve the local, national and international communities by developing, refining, applying, and transferring approaches to education that encourage students to pursue their education to their full potential. The department will serve as a leading model of education in this process.

Educational Objectives

The overarching educational objective of the B.S. in Computer Science program at UTEP is to produce graduates who will be in a profession or in a graduate program that utilizes their technical expertise, the foundation of which was obtained at UTEP. Specifically, graduates of UTEP's undergraduate program in Computer Science will be able to:

1. use the theoretical and technical computer science knowledge to specify requirements, develop a design, and implement and verify a solution for computing systems of different levels of complexity;
2. convey technical information in both oral and written formats;
3. work in teams;
4. apply a professional code of ethics in the daily practice of their profession; and
5. stay current in their profession.

Freshman Year

| 1 st Semester | Hours |
|--|-------|
| CS 1401 ⁺ Introduction to Computer Science..... | 4 |
| ENGL 1311 ⁺ Expository English Composition..... | 3 |
| HIST 1301 ⁺ History of U.S. to 1865..... | 3 |
| MATH 1411 ⁺ Calculus I..... | 4 |
| | 14 |

2nd Semester

| | |
|---|----|
| CS 2401 ⁺ Elementary Data Structures and Algorithms..... | 4 |
| ENGL 1312 ⁺ Research and Critical Writing..... | 3 |
| HIST 1302 ⁺ History of U. S. since 1865..... | 3 |
| MATH 1312 ⁺ Calculus II..... | 3 |
| MATH 2300 ⁺ Discrete Mathematics..... | 3 |
| | 16 |

Sophomore Year

1st Semester

| | |
|---|---|
| CS 2402 ⁺ Data Structures..... | 4 |
|---|---|

| | | | |
|----------------------------------|-------------------|---|-----|
| PHIL | 2306 ⁺ | Ethics Phil. Perspective Human Condition and Values..... | 3 |
| | | Quantitative Science Sequence I ⁺ | 4 |
| EE | 2369 | Digital Systems Design I..... | 3 |
| EE | 2169 | Digital Systems Design Laboratory..... | 1 |
| | | Core Curriculum Requirement ⁺ | 3 |
| | | | 17 |
| 2nd Semester | | | |
| CS | 3331 ⁺ | Advanced Object Oriented Programming..... | 3 |
| POLS | 2310 ⁺ | Introduction to Politics..... | 3 |
| | | Quantitative Science Sequence II ⁺ | 4 |
| | | Core Curriculum Requirement ⁺ | 3 |
| | | Core Curriculum Requirement ⁺ | 3 |
| | | | 16 |
| Junior Year | | | |
| 1st Semester | | | |
| CS | 3432 ⁺ | Computer Architecture I: Basic Computer Organization and Design..... | 4 |
| CS | 3350 | Automata, Computability, and Formal Languages..... | 3 |
| MATH | 3323 ⁺ | Matrix Algebra..... | 3 |
| POLS | 2311 ⁺ | American Government and Politics..... | 3 |
| | | Core Curriculum Requirement ⁺ | 3 |
| | | | 16 |
| 2nd Semester | | | |
| CS | 3195 | Junior Professional Orientation..... | 1 |
| CS | 3320 ⁺ | Computer Architecture II: Advanced Computer Design..... | 3 |
| | | Laboratory Science Elective..... | 3 |
| | | Laboratory Science Elective Lab..... | 1 |
| MATH | 4370 | Topic: Probability and Statistics..... | 3 |
| | | Free Elective..... | 3 |
| | | | 14 |
| Senior Year | | | |
| 1st Semester | | | |
| CS | 4310 ⁺ | Software Engineering: Requirements Engineering..... | 3 |
| CS | 3360 | Design and Implementation of Programming Languages..... | 3 |
| MATH | 4329 | Numerical Analysis..... | 3 |
| | | Technical Elective..... | 3 |
| | | Free Elective..... | 3 |
| | | | 15 |
| 2nd Semester | | | |
| CS | 4311 | Software Engineering: Design and Implementation..... | 3 |
| CS | 4375 | Theory of Operating Systems..... | 3 |
| | | Technical Elective..... | 3 |
| | | Technical Elective..... | 3 |
| | | | 16 |
| Total semester credit hours..... | | | 120 |

⁺ A grade of "C" or better is required in these courses.

Technical Electives must be from a list approved by the Computer Science program. This list includes junior and senior level computer science classes. Several special topics classes – CS 4390, CS 4371 and CS 4181 – can be repeated for credit; however, no more than a total of six hours of CS 4390, CS 4371 and CS 4181 in any combination can be counted toward the degree.

Students must complete fifteen semester hours of University Core Curriculum Requirements, from the following menus:

| | |
|-------------------------------------|------------------|
| Visual and Performing Arts menu | 3 semester hours |
| Social and Behavioral Sciences menu | 3 semester hours |

Communications Submenu B (Speech) 3 semester hours

Institutionally Designated Option 3 semester hours

All University Core Curriculum Requirements must be completed with a grade of "C" or better.

Quantitative Science Sequence: Students must complete a two-semester sequence in physics, biology, chemistry, or geology. Acceptable sequences are: BIOL 1305, 1107, 1306, and 1108; PHYS 2420 and 2421; CHEM 1305, 1105, 1306, and 1106; or GEOL 1313, 1103, 1314, and 1104.

Laboratory Science Electives: Students must complete a three credit hour lecture and one credit hour lab in physics, biology, chemistry, or geology. Acceptable courses are: PHYS 2420, PHYS 2401, BIOL 1305 and 1107, CHEM 1305 and 1105, GEOL 1301 and 1101. Credit for a course may not be applied to both the Quantitative Science Sequence and the Lab Science Elective requirements.

Physics Requirement: Students must complete either PHYS 2420 or PHYS 2401.

Statistics Requirement: Students must complete a Calculus-based Probability and Statistics course given as a special topics course MATH 4370 or equivalent.

Bachelor of Science in Electrical Engineering

The BS Degree in Electrical Engineering consists of 128 semester credit hours divided into a lower division, providing diverse courses over a broad base of technical subjects, and an upper division providing more specialized courses.

Vision

We, the Faculty of Electrical and Computer Engineering, commit ourselves to providing quality baccalaureate, masters, and doctoral programs to a diverse student population. We envision capitalizing on the bi-national location of our Institution and the collective strengths of our students and staff to create and maintain educational and research collaborations of the highest quality with faculty, institutions and industrial partners in the U.S., Mexico, and Latin America. We aspire to be a new model for engineering education that is committed to the ideals of excellence and access.

Mission

The Electrical Engineering Program will:

- Dedicate itself to providing its students with the skills, knowledge and attitudes that will allow its graduates to succeed as engineers and leaders.
- Maintain a vital, state-of-the art research enterprise that provides its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.
- Prepare its graduates for life-long learning to meet intellectual, ethical and career challenges.
- Recognize and act upon the special mandate to make high quality engineering education available to the residents of El Paso and the surrounding binational metroplex.

Educational Objectives

As individuals and as members of teams, our graduates will be able to:

- Demonstrate the ability to formulate, analyze, and solve electrical and computer engineering problems.
- Demonstrate the ability to apply the design process to engineering problems.
- Communicate effectively with those inside and outside of electrical and computer engineering.
- Exhibit social and professional responsibility in a global context.

Freshman Year

| 1 st Semester | Hours |
|--|-------|
| EE 1305 ⁺ Introduction to Electrical Engineering..... | 3 |
| EE 1105 ⁺ Laboratory for EE 1305..... | 1 |
| MATH 1411 ⁺ Calculus I..... | 4 |
| ENGL 1311 ⁺ Expository English Composition..... | 3 |
| HIST 1301 ⁺ History of U.S. to 1865..... | 3 |
| UNIV 1301 ⁺ Seminar in Critical Inquiry..... | 3 |
| or | |
| UNIV 2350 ⁺ Interdisciplinary Technology and Society..... | 3 |
| | 17 |
| 2 nd Semester | |
| EE 2369 ⁺ Digital Systems Design I..... | 3 |
| EE 2169 ⁺ Laboratory for EE 2369..... | 1 |
| MATH 1312 ⁺ Calculus II..... | 3 |
| ENGL 1312 ⁺ Research and Critical Writing..... | 3 |
| CHEM 1305 ⁺ General Chemistry..... | 3 |
| HIST 1302 ⁺ History of U.S. Since 1865..... | 3 |
| COMM 1302 ⁺ Business and Professional Communications..... | 3 |

Sophomore Year

1st Semester

| | | | |
|------|-------------------|-----------------------------|---|
| EE | 2372 ⁺ | Software Design I..... | 3 |
| MATH | 2313 ⁺ | Calculus III..... | 3 |
| PHYS | 2420 ⁺ | Introductory Mechanics..... | 4 |

| | | | |
|------|-------------------|------------------------|---|
| CHEM | 1306 ⁺ | General Chemistry..... | 3 |
|------|-------------------|------------------------|---|

or

| | | | |
|------|-------------------|----------------------|---|
| BIOL | 1305 ⁺ | General Biology..... | 3 |
|------|-------------------|----------------------|---|

| | | | |
|------|-------------------|-------------------------------|---|
| POLS | 2310 ⁺ | Introduction to Politics..... | 3 |
|------|-------------------|-------------------------------|---|

| | | | |
|--|--|------------------------------------|----------|
| | | Core Curriculum Requirement*+..... | <u>3</u> |
|--|--|------------------------------------|----------|

19

2nd Semester

| | | | |
|----|-------------------|------------------------|---|
| EE | 2351 ⁺ | Electric Circuits..... | 3 |
|----|-------------------|------------------------|---|

| | | | |
|----|-------------------|-----------------------------|---|
| EE | 2151 ⁺ | Laboratory for EE 2351..... | 1 |
|----|-------------------|-----------------------------|---|

| | | | |
|------|-------------------|-----------------------------|---|
| MATH | 2326 ⁺ | Differential Equations..... | 3 |
|------|-------------------|-----------------------------|---|

| | | | |
|------|-------------------|-----------------------|---|
| PHYS | 2421 ⁺ | Fields and Waves..... | 4 |
|------|-------------------|-----------------------|---|

| | | | |
|------|-------------------|-------------------------------|---|
| ECON | 2304 ⁺ | Principles and Economics..... | 3 |
|------|-------------------|-------------------------------|---|

| | | | |
|------|-------------------|---------------------------------------|----------|
| POLS | 2311 ⁺ | American Government and Politics..... | <u>3</u> |
|------|-------------------|---------------------------------------|----------|

17

Junior Year

1st Semester

| | | | |
|----|-------------------|--------------------------|---|
| EE | 3438 ⁺ | Electronic Circuits..... | 4 |
|----|-------------------|--------------------------|---|

| | | | |
|----|-------------------|-----------------------------|---|
| EE | 3138 ⁺ | Laboratory for EE 3438..... | 1 |
|----|-------------------|-----------------------------|---|

| | | | |
|----|-------------------|------------------------------------|---|
| EE | 3109 ⁺ | Computer-aided Digital Design..... | 1 |
|----|-------------------|------------------------------------|---|

| | | | |
|----|-------------------|-----------------------------------|---|
| EE | 3321 ⁺ | Electromagnetic Field Theory..... | 3 |
|----|-------------------|-----------------------------------|---|

| | | | |
|------|-------------------|---------------------|---|
| MATH | 3323 ⁺ | Matrix Algebra..... | 3 |
|------|-------------------|---------------------|---|

| | | | |
|--|--|------------------------------------|----------|
| | | Core Curriculum Requirement*+..... | <u>3</u> |
|--|--|------------------------------------|----------|

15

2nd Semester

| | | | |
|----|-------------------|---------------------------------|---|
| EE | 3340 ⁺ | Linear Integrated Circuits..... | 3 |
|----|-------------------|---------------------------------|---|

| | | | |
|----|-------------------|--------------------------|---|
| EE | 3353 ⁺ | Signals and Systems..... | 3 |
|----|-------------------|--------------------------|---|

| | | | |
|----|-------------------|-------------------------------|---|
| EE | 3376 ⁺ | Microprocessor Systems I..... | 3 |
|----|-------------------|-------------------------------|---|

| | | | |
|----|-------------------|--|---|
| EE | 3176 ⁺ | Laboratory for Microprocessor Systems I..... | 1 |
|----|-------------------|--|---|

| | | | |
|----|------|----------------------------|---|
| EE | 3384 | Probabilistic Methods..... | 3 |
|----|------|----------------------------|---|

| | | | |
|------|-------------------|-------------------------------|----------|
| PHYS | 3325 ⁺ | Survey of Modern Physics..... | <u>3</u> |
|------|-------------------|-------------------------------|----------|

16

Senior Year

1st Semester

| | | | |
|----|------|-------------------------|---|
| EE | 3329 | Electronic Devices..... | 3 |
|----|------|-------------------------|---|

| | | | |
|----|-------------------|--------------------------------|---|
| EE | 4220 ⁺ | Senior Project Laboratory..... | 2 |
|----|-------------------|--------------------------------|---|

| | | | |
|----|------|------------------------------------|---|
| EE | 4210 | Electrical Engineering Lab II..... | 2 |
|----|------|------------------------------------|---|

or

| | | | |
|----|------|--|--|
| EE | 4142 | Laboratory for Digital Systems Design II | |
|----|------|--|--|

and

| | | | |
|----|------|---|---|
| EE | 4178 | Laboratory for Microprocessor Systems II..... | 2 |
|----|------|---|---|

| | | | |
|--|--|-------------------------------|----------|
| | | Specialization Courses**..... | <u>6</u> |
|--|--|-------------------------------|----------|

13

2nd Semester

| | | | |
|----------------------------------|------|--------------------------------------|-----|
| EE | 4195 | Senior Professional Orientation..... | 1 |
| EE | 4230 | Senior Project Lab II..... | 2 |
| | | Approved Technical Elective**..... | 3 |
| | | Specialization Courses**..... | 6 |
| | | | 12 |
| Total Semester Credit Hours..... | | | 128 |

+ A grade of "C" or better is required in these courses.

* Six hours of electives must be selected from University Core Curriculum courses. Three of these hours must be in visual and performing arts, and three hours must be in humanities.

**At least 12 hours must be selected from the three lists of concentration courses as described below. Students who choose not to have a concentration must take at least three hours from each list. The approved technical elective must be selected from upper level courses in Engineering or Computer Science or the Biological or Physical Sciences.

Concentrations

Each list of courses permits the student to develop a concentration or pursue a particular career objective. In following a particular list, students will complete an in depth program of current interest to Electrical Engineering. Interested students should select a concentration prior to completion of the junior year, and plan their course of study in order to satisfy any prerequisites for courses within their chosen concentration. Most concentration courses are offered only once each academic year.

Computer Engineering

The computer engineering concentration is concerned with the organization, design, and use of digital hardware. Students who satisfy the requirements of this concentration have the opportunity to be prepared to work in both the design and application of modern computing systems. To fulfill the requirements of this concentration, a student must take the first two courses and select another two from the remaining ~~six~~ on the list of courses and associated laboratories shown below.

| | | |
|----|------|--------------------------------------|
| EE | 3372 | Software Design II |
| EE | 4374 | Operating System Design |
| EE | 4342 | Digital Systems Design II <u>and</u> |
| EE | 4142 | Laboratory for EE 4342 |
| EE | 4366 | Fuzzy Logic and Engineering |
| EE | 4372 | Microcontroller Applications |
| EE | 4375 | VLSI Design I |
| EE | 4376 | CMOS Digital Circuit Design |
| EE | 4378 | Microprocessor Systems II <u>and</u> |
| EE | 4178 | Laboratory for EE 4378 |
| EE | 4379 | Computer Architecture |
| EE | 4365 | Topics in Soft Computing |

Fields and Devices Engineering

This concentration prepares the student in: a) the generation, transmission, and reception of signals in the electromagnetic spectrum, and b) the analysis, design, and testing of modern electronic circuits. For this concentration, students must complete at least three of the courses listed below, and one from either one of the other lists of concentration courses.

| | | |
|----|------|---|
| EE | 3385 | Energy Conversion |
| EE | 4347 | Applied Electromagnetics |
| EE | 4350 | Integrated Circuits and Semiconductor Devices |
| EE | 4352 | Power Electronics |
| EE | 4353 | VLSI Nanotechnology |
| EE | 4361 | Fiber Optic Communications |
| EE | 4375 | VLSI Design I |
| EE | 4376 | CMOS Digital Circuit Design |
| EE | 4380 | Microwave Communications |
| EE | 4382 | Antenna Engineering |
| EE | 4385 | Biomedical Instrumentation |
| EE | 4386 | Computational Methods in Electrical Engineering |
| EE | 4389 | High Resolution Radar |

Systems and Communications Engineering

This concentration stresses analytical design of systems for information transmission, control, and signal processing. For this concentration students must complete at least three of the courses listed below, and one from either one of the other lists of concentration courses.

| | | |
|----|------|---------------------------------|
| EE | 3354 | Intro to Communication Networks |
|----|------|---------------------------------|

| | |
|---------|---|
| EE 4341 | Communication Systems |
| EE 4356 | Real-Time Signal Processing and Communication |
| EE 4361 | Fiber Optic Communication |
| EE 4364 | Systems and Control |
| EE 4365 | Topics in Soft Computing |
| EE 4383 | Digital Signal Processing |
| EE 4388 | Digital Communications |
| EE 4389 | High-Resolutions Radar |

Bachelor of Science in Industrial Engineering

The Industrial Engineering Curriculum is designed for students who desire to enter industry or pursue advanced studies. The curriculum provides a broad range of courses in the areas of human interface design and management, plant design, operations research, production and inventory control and quality control.

Vision

The industrial Engineering Program strives to graduate industrial engineers of the highest quality and to conduct state of the art research.

Mission

The Industrial Engineering Program makes a high quality, relevant engineering education available to all residents of the El Paso bi-national region. The department dedicates itself to providing students with a set of skills, knowledge and attitudes that will permit its graduates to succeed and thrive as engineers and leaders.

Educational Objectives

1. Prepare all students for jobs in the marketplace and success in the bi-national setting.
2. Prepare and motivate students to engage in graduate level studies.

Freshman Year

| 1 st Semester | | Hours |
|---|-------------------------------------|-------|
| ENGL 1311 ⁺ | Expository English Composition..... | 3 |
| MATH 1411 ⁺ | Calculus I..... | 4 |
| | Science Course ⁺ | 4 |
| UNIV 1301 ⁺ or 2350 ⁺ | | 3 |
| | | 14 |

2nd Semester

| | | |
|------------------------|--|----|
| IE 1205 ⁺ | Graphics Fundamentals in Engineering Design..... | 2 |
| IE 2315 | Statics for IE Majors..... | 3 |
| HIST 1301 ⁺ | History of U. S. to 1865..... | 3 |
| ENGL 1312 ⁺ | Research and Critical Writing..... | 3 |
| MATH 1312 ⁺ | Calculus II..... | 3 |
| | | 14 |

Sophomore Year

| 1 st Semester | | Hours |
|--------------------------|--|-------|
| IE 2303 | Materials and Manufacturing Processes..... | 3 |
| MATH 2313 ⁺ | Calculus III..... | 3 |
| IE 2326 ⁺ | Engineering Economy for IE Majors..... | 3 |
| | Visual and Performing Arts Elective ⁺ | 3 |
| | Science Course ⁺ | 4 |
| | | 16 |

2nd Semester

| | | |
|------------------------|---|----|
| | Social Science Core ⁺ | 3 |
| IE 2126 | Manufacturing Engineering Laboratory..... | 1 |
| HIST 1302 | History of the U.S. Since 1865..... | 3 |
| IE 2377 | Electro Mechanical Systems..... | 3 |
| MATH 2326 ⁺ | Differential Equations..... | 3 |
| | | 13 |

Junior Year

| 1 st Semester | | Hours |
|--------------------------|---|-------|
| IE 3373 ⁺ | Engineering Probability and Statistical Models..... | 3 |
| IE 3331 | Systems Engineering..... | 3 |
| IE 3390 | Operations Research I..... | 3 |
| POLS 2310 | Introduction to Politics..... | 3 |
| COMM 1302 ⁺ | Business and Professional Communication..... | 3 |
| | | 15 |

2nd Semester

| | | |
|------------------------|--|----|
| IE 3477 | Methods and Industrial Ergonomics..... | 4 |
| IE 3352 | Design of Experiments..... | 3 |
| IE 3332 | Safety Engineering..... | 3 |
| MATH 3323 ⁺ | Matrix Algebra..... | 3 |
| | Humanities Elective ⁺ | 3 |
| | | 16 |

Senior Year

1st Semester

| | | | |
|----------------------------------|------|--|----------|
| 1st Semester | | | |
| IE | 4353 | Industrial System Simulation..... | 3 |
| IE | 4391 | Production and Inventory Control..... | 3 |
| IE | 4384 | Industrial Layout..... | 3 |
| POLS | 2311 | American Government and Politics..... | 3 |
| | | Technical Elective ¹ | <u>3</u> |
| | | | 15 |
| 2nd Semester | | | |
| IE | 4385 | Statistical Quality Control and Reliability..... | 3 |
| IE | 4466 | Senior Design..... | 4 |
| IE | 4490 | Operations Research II..... | 4 |
| MATH | 4329 | Numerical Analysis..... | 3 |
| | | Technical Elective ¹ | <u>3</u> |
| | | | 17 |
| Total Semester Credit Hours..... | | | 120 |

+ A grade of "C" or better is required.

¹ Select a 2-course block from MECH 3365, MECH 4311, MECH 3305, MECH 4364, MECH 3363, IMS 4361, IE 4333, IE 4395. The 6 hours of technical elective must be taken as one of the designated 2-course blocks.

International Manufacturing Certificate

This program is an applied internship in a local manufacturing plant where the student applies the international manufacturing management and engineering fundamentals from IMS 4360 and 4361. The student will intern in a manufacturing facility and work on problems ranging from testing and inspection, design, quality, production and inventory control, maintenance, purchasing, planning and scheduling, safety and ergonomics, tooling, to accounting, etc. Students will have an industry mentor, a faculty mentor, and a field engineer helping with problems. The mid-term and final examinations will consist of a written report and presentation to the faculty mentor and industrial partner based on the research/design/analysis performed in the industrial department in which the student worked.

Bachelor of Science in Mechanical Engineering

The Mechanical Engineering curriculum is designed for students who desire to enter industry or pursue advanced studies. The curriculum provides a broad range of courses in the areas of thermal sciences, fluid mechanics, mechanical design and manufacturing.

Vision

The Mechanical Engineering Program strives to graduate mechanical engineers of the highest quality and to conduct state of the art research.

Mission

The Mechanical Engineering Program makes a high quality, relevant engineering education available to all residents of the El Paso bi-national region. The department dedicates itself to providing students with a set of skills, knowledge and attitudes that will permit its graduates to succeed and thrive as engineers and leaders.

The Program strives to:

Prepare its graduates to pursue lifelong learning, serve the profession and meet intellectual, ethical and career challenges.

Maintain a vital, state-of-the-art research enterprise to provide its students and faculty with opportunities to create, interpret, apply and disseminate knowledge.

Educational Objectives:

1. Prepare all students for jobs in the marketplace and success in the bi-national setting.
2. Prepare all students to pass the Fundamentals of Engineering (FE) Examination.
3. Prepare and motivate students to engage in graduate level studies.

Freshman Year

| 1 st Semester | | Hours |
|--------------------------------|--|---|
| BE | 1301 ⁺ | Introduction to Engineering..... 3 |
| BE | 1101 ⁺ | Introduction to Engineering Lab..... 1 |
| ENGL | 1311 ⁺ | Expository English Composition..... 3 |
| MATH | 1411 ⁺ | Calculus I..... 4 |
| | | Science Course ⁺ 4 |
| UNIV | 1301 ⁺ or 2350 ⁺ | <u>3</u> |
| | | 18 |
| 2nd Semester | | |
| BE | 1205 ⁺ | Graphic Fundamentals in Engineering Design..... 2 |
| HIST | 1301 ⁺ | History of U. S. to 1865..... 3 |
| ENGL | 1312 ⁺ | Research and Critical Writing..... 3 |
| MATH | 1312 ⁺ | Calculus II..... 3 |
| | | Science Course ⁺ 4 |
| | | 15 |

Sophomore Year

| | | |
|--------------------------------|--|------------|
| 1st Semester | | |
| BE | 2434 ⁺ Mechanics I..... | 4 |
| MATH | 2313 ⁺ Calculus III..... | 3 |
| BE | 2326 ⁺ Engineering Economy..... | 3 |
| POLS | 2310 ⁺ Introduction to Politics..... | 3 |
| | Science Course ⁺ | 4 |
| | | 17 |
| 2nd Semester | | |
| | ⁺ Social Science Core..... | 3 |
| BE | 2338 ⁺ Mechanics II..... | 3 |
| BE | 2375 ⁺ Introduction to Thermal-Fluid Science..... | 3 |
| MATH | 2326 ⁺ Differential Equations..... | 3 |
| BE | 2303 ⁺ Introduction to Materials Science and Engineering..... | 3 |
| BE | 2377 ⁺ Electrical Circuits and Motors..... | 3 |
| | | 18 |
| Junior Year | | |
| 1st Semester | | |
| MECH | 3305 Mechanical Engineering Laboratory I..... | 3 |
| BE | 3341 ⁺ Engineering Analysis..... | 3 |
| BE | 3373 ⁺ Engineering Probability and Statistical Models..... | 3 |
| HIST | 1302 ⁺ History of U.S. since 1865..... | 3 |
| MECH | 3354 Fluid Mechanics..... | 3 |
| | | 15 |
| 2nd Semester | | |
| MECH | 4106 Mechanical Engineering Lab II..... | 1 |
| COMM | 1302 ⁺ Business and Professional Communication..... | 3 |
| IE | 3126 Industrial Engineering Laboratory..... | 1 |
| MECH | 3365 Dynamic Response..... | 3 |
| MECH | 4364 Mechanical Design..... | 3 |
| MECH | 3376 Thermodynamics II..... | 3 |
| | Humanities Elective ⁺ | 3 |
| | | 17 |
| Senior Year | | |
| 1st Semester | | |
| MECH | 4107 Mechanical Engineering Lab III..... | 1 |
| MECH | 4311 Automatic Controls..... | 3 |
| MECH | 4111 Controls Laboratory..... | 1 |
| | Technical Elective ¹ MECH or IE course from list below..... | 3 |
| MECH | 4351 Heat Transfer..... | 3 |
| | Technical Elective ¹ MECH or IE course from list below..... | 3 |
| | | 14 |
| 2nd Semester | | |
| MECH | 4466 Senior Design..... | 4 |
| MECH | 4195 Senior Professional Orientation..... | 1 |
| | Technical Elective ¹ MECH or IE course from list below..... | 3 |
| POLS | 2311 ⁺ American Government and Politics..... | 3 |
| | Visual and Performing Arts Elective ⁺ | 3 |
| | | 14 |
| | Total Semester Credit Hours..... | 128 |

⁺ A grade of "C" or better is required.

¹ Approved technical electives are MECH 4355, MECH 4356, MECH 4368, MECH 4371, MECH 4395; MECH 3363; IE 3477, IE 3332, IE 4353, IE 4384, IE 4385, IE 4391, IE 4392.

Bachelor of Science in Metallurgical and Materials Engineering

The Metallurgical and Materials Engineering curriculum is a broad-based program designed to provide a basic education in metallurgical and materials engineering. The student can specialize in one or more areas in the junior and senior year by taking appropriate elective courses. The program is well suited for a career in industry or as a basis for graduate study. Courses related to advanced materials topics are also available.

Vision

Our vision is to provide a modern Metallurgical and Materials Engineering Program of the highest quality.

Mission

We will emphasize learning and applying metallurgical and materials engineering fundamentals, spanning all major classes of materials. We will offer students opportunities to explore the whole gamut of applications, from advanced microelectronic technology to the basic infrastructure on which we all depend. The B.S. degree program in Metallurgical and Materials Engineering will serve two broad purposes: 1) to provide sufficient grounding for a graduate to perform effectively, over time, in industry or other employment; and 2) to provide opportunity for all types of students, while maintaining a high level of excellence in all graduates. It will sharpen communication skills, both oral and written. It will also provide basic engineering skills for problem-solving and lifelong learning. We will maintain a balance between the applied and theoretical aspects, and will strive to provide pre-professional employment (either research experiences or internships).

Educational Objectives:

(The following objectives are ranked in order of decreasing importance. 1= most important)

1. Students completing the B.S. program will be competitive with graduates of similar, ABET-accredited programs nationally.
2. The program will continue to make significant contributions to the minority B.S. degree pool in metallurgical and materials engineering or related fields.
3. Our Department will provide materials and process fundamentals for other engineering disciplines to show the value-added of multidisciplinary efforts.
4. A significant proportion of our graduates will secure admission to a graduate program. The Department will take a pro-active stance in helping its students.
5. The Department will take the lead in the development and innovations of CircLES, with emphasis on engineering design issues, student team development, and engineering multidisciplinary.

Freshman Year

| 1 st Semester | Hours |
|--|-------|
| BE 1301 ⁺ Introduction to Engineering..... | 3 |
| BE 1101 ⁺ Introduction to Engineering Lab..... | 1 |
| ENGL 1311 ⁺ Expository English Composition..... | 3 |
| MATH 1411 ⁺ Calculus I..... | 4 |
| Science Course ¹⁺ | 4 |
| UNIV 1301 or 2350 ²⁺ | 3 |
| | 18 |

2nd Semester

| | |
|---|----|
| BE 1205 ⁺ Graphics in Engineering Design..... | 2 |
| HIST 1301 ⁺ History of U.S. to 1865..... | 3 |
| ENGL 1312 ⁺ Research and Critical Writing..... | 3 |
| MATH 1312 ⁺ Calculus II..... | 3 |
| Science Elective ¹⁺ | 4 |
| | 15 |

Sophomore Year

1st Semester

| | |
|--|---|
| BE 2434 ⁺ Mechanics I..... | 4 |
| MATH 2313 ⁺ Calculus III..... | 3 |
| BE 2326 ⁺ Engineering Economy..... | 3 |
| POLS 2310 ⁺ Introduction to Politics..... | 3 |
| Science Elective ¹⁺ | 4 |

17

2nd Semester

| | |
|--|---|
| BE 2338 ⁺ Mechanics II..... | 3 |
| BE 2375 ⁺ Introduction to Thermo-Fluid Science..... | 3 |

| | | | |
|----------------------------------|-----------------------|--|--------|
| MATH | 2326 ⁺ | Differential Equations..... | 3 |
| BE | 2303 ⁺ | Introduction to Materials Science and Engineering..... | 3 |
| BE | 2377 ⁺ | Electrical Circuits and Motors..... | 3 |
| | | | 15 |
| Junior Year | | | |
| 1 st Semester | | | |
| | | Social and Behavioral Science Elective ³⁺ | 3 |
| | | Communication Elective ⁴⁺ | 3 |
| HIST | 1302 ⁺ | History of U.S. Since 1865..... | 3 |
| MVE | 3306 ⁸⁺ | Rate Processes in Materials Systems..... | 3 |
| or | | | |
| BE | 3373 ⁹⁺ | Engineering Probability and Statistics..... | 3 |
| MVE | 3406 ⁺ | Physical Metallurgy..... | 4 |
| | | | 16 |
| 2 nd Semester | | | |
| POLS | 2311 ⁺ | American Government and Politics..... | 3 |
| | | Visual and Performing Arts Elective ⁵⁺ | 3 |
| MVE | 3407 ^{8, 9+} | Mechanical Behavior of Materials..... | 4 |
| MVE | 3308 ⁸⁺ | Applied Chemical Thermodynamics..... | 3 |
| or | | | |
| IE | 3332 ⁹ | Safety Engineering..... | 3 |
| MVE | 3309 ⁸⁺ | Introduction to Electronic Materials..... | 3 |
| or | | | |
| MVE | 3321 ⁹⁺ | Engineering Alloys..... | 3 |
| | | | 16 |
| Senior Year | | | |
| 1 st Semester | | | |
| | | Humanity Elective ⁶⁺ | 3 |
| MVE | 4303 ⁸ | Metals Processing..... | 3 |
| or | | | |
| IE | 4391 ⁹ | Production and Inventory Control..... | 3 |
| MVE | 4413 ^{8, 9} | Structural Characterization..... | 4 |
| MVE | 4316 ^{8, 9} | Failure Analysis..... | 3 |
| | | MVE Elective ^{7, 8, 9} | 3 |
| | | | 16 |
| 2 nd Semester | | | |
| MVE | 4404 ^{8, 9} | Materials Processing and Fabrication..... | 4 |
| MVE | 4419 | Metallurgical and Materials Engineering Design..... | 4 |
| MVE | 4309 ^{8, 9} | Corrosion..... | 3 |
| IE | 4385 ⁹ | Statistical Quality Control and Reliability..... | 3 |
| MVE | 4195 ^{8, 9} | Senior Professional Orientation..... | 1 |
| | | | 12-15 |
| Total Semester Credit Hours..... | | | 25-128 |

⁺ A grade of "C" or better is required. A "C" or better is required in MVE courses through the junior level.

¹ Science Elective: CHEM 1305 and 1105, CHEM 1306 and 1106, and PHYS 2421.

² University Elective: UNIV 1301 or UNIV 2350.

³ Social and Behavioral Science Menu.

⁴ Communication Elective: COMM 1301 or COMM 1302.

⁵ Visual and Performing Arts Menu.

⁶ Humanities Menu.

⁷ Electives offered are Composite Materials (3314), Engineering Alloys (3321), and

Polymer Engineering (4310).

⁸ All courses designated such are required for concentration 1.

⁹ All courses designated such are required for concentration 2.

Concentrations

Each list of courses permits the student to develop a focus or pursue a particular career objective. In following a particular list, students will complete an in-depth program of current interest in Metallurgical and Materials Engineering. Most concentration courses are offered only once each academic year. The student must complete all the requirements for concentration 1 or all the requirements for concentration 2.

Concentration 1: General Metallurgical and Materials Engineering

This concentration provides students with a program of study that emphasizes the major areas of metallurgical and materials engineering. This concentration is intended for students with a broad interest in metallurgical and materials engineering. Students choosing this concentration follow the curriculum outlined above.

Concentration 2: Manufacturing

This concentration utilizes electives in the traditional metallurgical and materials engineering program along with other appropriate program modifications to allow a graduate to perform a variety of professional duties in manufacturing arenas especially involved with materials selection and design, materials processing, environmental concerns, production failures and materials degradation, and a range of materials and processes quality control. This concentration prepares a student for advanced study in manufacturing engineering, materials science and engineering, or other related engineering areas. In addition to the requirements shown in the degree plan, the student must work on a manufacturing related project during Senior Design (MME 4419).

Basic Engineering (BE)

1101 Introduction to Engineering Lab (0-3)

Students will learn and practice team skills, data analysis techniques, written and oral communication skills, engineering math applications, and problem solving using Excel. Students will work in teams on several hands-on projects that each culminate in a written report and oral presentation. *Prerequisites:* MATH 1411 and ENGL 1311 each with a grade of "C" or better and department approval. MATH 1411 and ENGL 1311 may be taken concurrently with BE 1101.

1205 Graphic Fundamentals in Engineering Design (1-3)

(* ENGR 1204)

Fundamentals of multiview projections, auxiliaries, sections, pictorial drawings, dimensioning; introduction to CAD, decision process, and geographical information systems.

1301 Introduction to Engineering (3-0)

This course will introduce the student to effective methods for solving engineering problems using mathematics, fundamental engineering concepts, data analysis techniques, and computational tools. The course will also introduce the student to the engineering profession, including the role and responsibilities of the engineer in today's society and engineering ethics. *Prerequisites:* MATH 1411 and ENGL 1311 each with a grade of "C" or better and department approval. MATH 1411 and ENGL 1311 may be taken concurrently with BE 1301.

2303 Introduction to Materials Science and Engineering (3-0)

Introduction to properties of engineering materials and relationships to their structure, behavior, and processing; materials testing and measurement of properties. Selection of materials for engineering applications considering interrelationships between structure, properties, processing, and performance. *Prerequisite:* CHEM 1305 with a grade of "C" or better.

2326 Engineering Economy (2-3)

Application of economics to engineering and industrial problems which require a knowledge of engineering for their solution. *Prerequisite:* MATH 1411 with a grade of "C" or better.

2338 Mechanics II (2-3)

(* ENGR 2302)

A second course in Newtonian mechanics; dynamics (kinematics and kinetics) of particles and rigid bodies; work and energy; impulse and momentum. *Prerequisites:* MATH 1312 and BE 2434, each with a grade of "C" or better.

2375 Introduction to Thermal-Fluid Science (2-3)

An introduction to the basic concepts of thermodynamics and fluid mechanics to

include properties, property relationships, states and fields. Presentation of the basic equations of thermal-fluid science, continuity, first and second laws of thermodynamics and momentum. *Prerequisite:* BE 2338. BE 2338 may be taken concurrently with BE 2375.

2377 Electrical Circuits and Motors (2-3)

Principles of electrical circuits, generator, and motors. Introduction to electronics and introduction to microprocessors for data acquisition. *Prerequisite:* PHYS 2421 with a grade of "C" or better.

2434 Mechanics I (3-3)

A first course in Newtonian mechanics using vectors. Equilibrium of particles and rigid bodies, forces in space, centroids, moments of inertia, study of stress and strain; use of stress-load equations to determine the state of stress in specific structural elements; study of combined stresses. *Prerequisite:* MATH 1411 with a grade of "C" or better.

3341 Engineering Analysis (3-0)

Applications of mathematical principles to the analysis of engineering problems: derivation and solution of mathematical models of physical systems, closed-form solutions, computer solutions by programming in a higher language and by using mathematical computer packages. *Prerequisites:* MATH 2313 and MATH 2326, each with a grade of "C" or better.

3373 Engineering Probability and Statistical Models (2-3)

Fundamental concepts of discrete and continuous random variables, distribution functions, moments, moment generating functions, statistical dependence, stochastic modeling and random events, graphical and numerical methods, descriptive and inferential statistics, point and interval estimation, hypothesis testing and regression analysis. The creation and proper utilization of statistical decision models for engineering analysis and design are stressed. Emphasis is on measurement, formulation analysis and design of physical problems. *Prerequisite:* MATH 2313 with a grade of "C" or better.

Engineering (ENGR)**1100 Engineering Seminar (1-0)**

This course will prepare entering students to succeed in the college and introduce students to careers in engineering and science. The course cannot be counted toward a degree in an Engineering discipline. *Prerequisite:* Department approval.

1300 Introduction to Science and Engineering (3-0)

This course will help the student develop learning, study, and group skills, improve math application skills, and develop critical thinking and basic computer skills and problem solving skills. Basic concepts in engineering and science will be introduced.

1400 Introduction to Engineering and Physical Sciences (3-3)

This course will help the student develop critical thinking skills, improve problem solving skills, increase learning, study, and group skills, develop basic computer skills, and improve math application skills. Basic concepts in science and engineering will be introduced and explored through projects. The course is designed for pre-science and pre-engineering students who are not yet enrolled in MATH 1508. *Prerequisite:* MATH 0311. MATH 0311 may be taken concurrently with ENGR 1400.

1401 Introduction to Engineering and Design (3-3)

This course will introduce the student to effective procedures for solving engineering and design problems using mathematics, computers, basic measuring systems and devices, computational tools, and statistical concepts. The course will also introduce the student to the engineering profession, including the role and responsibilities of the engineer in today's society. *Prerequisites:* MATH 1411 and ENGL 1311, each with a grade of "C" or better, and department approval. MATH 1411 and ENGL 1311 may be taken concurrently with ENGR 1401.

📍 Indicates Texas Common Course Number

Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

Educational Leadership and Foundations

501 Education Building
(915) 747-5300
<https://academics.utep.edu/edleadership>

CHAIR: Jorge Descamps
PROFESSORS EMERITI: Herbert K. Heger, John B. Peper
PROFESSORS: Daresh, Pacheco, Johnston
ASSOCIATE PROFESSORS: Brooks, Navarro, Rincones
ASSISTANT PROFESSORS: Mendez, Sorenson, Schulte
VISITING ASSISTANT PROFESSOR: Cortez

Students should consult the *Graduate Catalog* for information on degrees and programs in Educational Leadership and Foundations.

Educational Psychology and Special Services

701 Education Building
(915) 747-5221
edpsych@utep.edu

INTERIM CHAIR: Judy Reinhartz
ASSOCIATE PROFESSORS: Argus-Calvo, Combs, Cortez-Gonzalez, Hammond, Ingalls, Johnson
ASSISTANT PROFESSORS: Dickson, Trussell

Educational Psychology and Counseling (EDPC)

2300 Development in Young Children and Youth (3-1)

This course covers typical development (cognitive-language, physical-motor, and social-personality) from birth through adulthood. Field experience required.

3300 Developmental Variations (3-0-2)

This course covers typical development (cognitive-language, physical-motor, and social-personality) from birth through young adulthood as well as variations of typical development and accommodations made within the education system to include federal, state, local, and school-based decisions in instruction, curriculum, and law. Field Experience required. *Prerequisites:* Admission to Teacher Education and department approval.

3346 Developmental Variations and Learning Differences (3-2)

Survey of human growth and development of adolescents and young adults as well as variations of typical development and accommodations made within the education system. Survey of various exceptionalities and laws pertaining to the disabled. *Prerequisites:* Admission to Teacher Education and department approval.

See the *Graduate Catalog* for graduate programs and courses.

Special Education (SPED)

3310 Special Education Services for Students in General and Special Education Settings (3-0)

This course covers the definitions and characteristics of the various exceptionalities as well as the accommodations made for students within the general education setting. Federal mandates regarding services, instruction, curriculum, and inclusion within the least restrictive environment will be emphasized. *Prerequisite:* Admission to Teacher Education.

3327 Teaching Students with Mild Disabilities (3-0)

This course focuses on the cognitive and social-emotional characteristics common to students with learning and behavior difficulties, and the exploration of factors that influence the performance of these students in various settings. Includes definitions, characteristics, and interventions for this population. *Prerequisites:* SPED 3310 with and grade of "C" and department approval. SPED 3310 may be taken concurrently with SPED 3327 if student is admitted into Teacher Education.

3340 Students with Severe and Profound Disabilities (3-0)

Focuses on characteristics, history, and educational implications for students with severe or profound disabilities. Includes various models of integration, transition, and community based instruction. Specific field experience is required. *Prerequisites:* SPED 3310 and admission to Teacher Education. SPED 3310 may be taken concurrently with SPED 3340.

3345 Language and Reading for Special Learners (3-0)

Designed to provide special education teachers with an understanding of concepts and procedures for encouraging language development, and for teaching reading and other major content areas to students with disabilities. Specific field experience is required. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4330 Diagnosis and Placement (3-0)

Referral, assessment, placement, and program processes for persons with exceptionalities, including both formal and informal techniques, and implications for the use of this assessment information. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4340 Transitional Education for Learners with Special Needs (3-0)

This course focuses on terms and concepts of transition educational programs for individuals with disabilities. Will emphasize training for inclusion in communities including vocational, domestic/self-care, and leisure/recreational skills. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4350 Workshop in Special Education (3-0)

Area of study will be designated. May be repeated for credit when topic varies. *Prerequisites:* Department approval and admission to Teacher Education.

4365 Organization and Management in Special Education (3-0)

Includes general principles in the organization of all types and levels of special education and inclusive classrooms as well as theories regarding the behavioral and social needs of students in those classrooms. Specific field experience is required. Senior standing suggested. *Prerequisites:* SPED 3310, department approval, and admission to Teacher Education.

4370 Assistive Technology for Special Populations (3-0)

Course will focus on the legal requirements for assistive technology; the assistive technology available for individuals with special needs; and the classroom use of this technology. *Prerequisite:* Department approval.

4393 Internship in Special Education I (3-0-30)

As part of the internship, students enroll in Internship I of the field-based program. They are assigned to either an elementary (EC-4), middle school (4-8) or high school program for students with disabilities and scheduled all morning or all afternoon throughout the semester. Interns divide their time between fieldwork and university classes. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Special Education II (3-0-30)

Students enroll in Internship II of the field-based program and participate as members of the instructional team. This internship will be with a different age group and type of disability from the first internship. In addition to classroom teaching duties, interns are enrolled in university classes that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of earlier semesters in developing an effective professional style. Interns are scheduled all day throughout the semester. *Prerequisites:* SPED 4393 with a grade of "C" or better, and admission to Teacher Education and department approval.

4691 Student Teaching in Special Education/Elementary (1-0-30)

Minimum of fifteen weeks all-day student teaching in special education and elementary classroom plus fifteen hours of seminar. Special admission requirements for student teaching. *Prerequisites:* All other professional studies courses, RED 3340, and admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

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Educational Psychology and Special Services

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ASSOCIATE PROFESSORS: Argus-Calvo, Combs, Cortez-Gonzalez, Hammond, Ingalls, Johnson
ASSISTANT PROFESSORS: Dickson, Trussell

Educational Psychology and Counseling (EDPC)

2300 Development in Young Children and Youth (3-1)

This course covers typical development (cognitive-language, physical-motor, and social-personality) from birth through adulthood. Field experience required.

3300 Developmental Variations (3-0-2)

This course covers typical development (cognitive-language, physical-motor, and social-personality) from birth through young adulthood as well as variations of typical development and accommodations made within the education system to include federal, state, local, and school-based decisions in instruction, curriculum, and law. Field Experience required. *Prerequisites:* Admission to Teacher Education and department approval.

3346 Developmental Variations and Learning Differences (3-2)

Survey of human growth and development of adolescents and young adults as well as variations of typical development and accommodations made within the education system. Survey of various exceptionalities and laws pertaining to the disabled. *Prerequisites:* Admission to Teacher Education and department approval.

See the *Graduate Catalog* for graduate programs and courses.

Special Education (SPED)

3310 Special Education Services for Students in General and Special Education Settings (3-0)

This course covers the definitions and characteristics of the various exceptionalities as well as the accommodations made for students within the general education setting. Federal mandates regarding services, instruction, curriculum, and inclusion within the least restrictive environment will be emphasized. *Prerequisite:* Admission to Teacher Education.

3327 Teaching Students with Mild Disabilities (3-0)

This course focuses on the cognitive and social-emotional characteristics common to students with learning and behavior difficulties, and the exploration of factors that influence the performance of these students in various settings. Includes definitions, characteristics, and interventions for this population. *Prerequisites:* SPED 3310 with and grade of "C" and department approval. SPED 3310 may be taken concurrently with SPED 3327 if student is admitted into Teacher Education.

3340 Students with Severe and Profound Disabilities (3-0)

Focuses on characteristics, history, and educational implications for students with severe or profound disabilities. Includes various models of integration, transition, and community based instruction. Specific field experience is required. *Prerequisites:* SPED 3310 and admission to Teacher Education. SPED 3310 may be taken concurrently with SPED 3340.

3345 Language and Reading for Special Learners (3-0)

Designed to provide special education teachers with an understanding of concepts and procedures for encouraging language development, and for teaching reading and other major content areas to students with disabilities. Specific field experience is required. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4330 Diagnosis and Placement (3-0)

Referral, assessment, placement, and program processes for persons with exceptionalities, including both formal and informal techniques, and implications for the use of this assessment information. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4340 Transitional Education for Learners with Special Needs (3-0)

This course focuses on terms and concepts of transition educational programs for individuals with disabilities. Will emphasize training for inclusion in communities including vocational, domestic/self-care, and leisure/recreational skills. *Prerequisites:* SPED 3310 and admission to Teacher Education.

4350 Workshop in Special Education (3-0)

Area of study will be designated. May be repeated for credit when topic varies. *Prerequisites:* Department approval and admission to Teacher Education.

4365 Organization and Management in Special Education (3-0)

Includes general principles in the organization of all types and levels of special education and inclusive classrooms as well as theories regarding the behavioral and social needs of students in those classrooms. Specific field experience is required. Senior standing suggested. *Prerequisites:* SPED 3310, department approval, and admission to Teacher Education.

4370 Assistive Technology for Special Populations (3-0)

Course will focus on the legal requirements for assistive technology; the assistive technology available for individuals with special needs; and the classroom use of this technology. *Prerequisite:* Department approval.

4393 Internship in Special Education I (3-0-30)

As part of the internship, students enroll in Internship I of the field-based program. They are assigned to either an elementary (EC-4), middle school (4-8) or high school program for students with disabilities and scheduled all morning or all afternoon throughout the semester. Interns divide their time between fieldwork and university classes. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Special Education II (3-0-30)

Students enroll in Internship II of the field-based program and participate as members of the instructional team. This internship will be with a different age group and type of disability from the first internship. In addition to classroom teaching duties, interns are enrolled in university classes that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of earlier semesters in developing an effective professional style. Interns are scheduled all day throughout the semester. *Prerequisites:* SPED 4393 with a grade of "C" or better, and admission to Teacher Education and department approval.

4691 Student Teaching in Special Education/Elementary (1-0-30)

Minimum of fifteen weeks all-day student teaching in special education and elementary classroom plus fifteen hours of seminar. Special admission requirements for student teaching. *Prerequisites:* All other professional studies courses, RED 3340, and admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

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Teacher Education

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<https://academics.utep.edu/teachered>

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LECTURERS: Aguilar, Armendariz, Becker, Herrera, Longoria, Moran, Valdez, Villa, Wallace

Bilingual Education (BED)

3345 Biliteracy Development (3-1)

Develops an understanding of first and second language acquisition, its stages, and conventions. Integrates this knowledge base and applications in the interrelated components of reading and writing across all developmental stages. In addition, develops a knowledge base of the principles, components and stages of reading development for children who develop literacy in two languages. Integrates strategies to build on the linguistic knowledge that children bring in their first language in order to teach them a concept not yet developed. Taught in Spanish.

4309 Bilingual-Social Studies Education in Primary Grades (3-3)

Approaches to teaching social studies in early childhood education and primary grades to culturally and linguistically diverse populations. Includes setting goals for instruction and content, teaching techniques and methods of evaluation. Theory and practice are integrated through field-based experiences in local schools. Emphasis on individual differences, application of learning theories, curriculum development and understanding of state and national standards for social studies. *Prerequisites:* Admission to Teacher Education and department approval.

4310 Teaching Math in Dual Language Classrooms (3-3)

Methods for teaching mathematics in (EC-4) dual language classrooms. Emphasis on dual language learners, the equity principle (mathematics for all) and development of conceptual understanding on topics such as number sense, patterns and basic algebra, geometry and measurement, data analysis and probability. *Prerequisites:* Admission to Teacher Education and department approval.

4311 Teaching Science in Dual Language Classrooms (3-3)

Methods and materials for teaching science in pre-kindergarten through fourth grade. Emphasis on dual language, inquiry-based and standards-based teaching and learning. Includes computer applications and field experiences. *Prerequisites:* Admission to Teacher Education and department approval.

4340 Principles of Bilingual/ESL Education (3-0)

Emphasis is on the theory and practice of Bilingual Education and English as a Second Language. Focus on identification of program models in Bilingual/ESL education, including their historical, legislative, and philosophical foundations, as well as instructional frameworks for various programs. An additional focus is on the implementation of bilingual instruction with U.S.-Mexico border populations. *Prerequisite:* Admission to Teacher Education.

4341 Critical Perspectives in Spanish/English Literacy in

Bilingual Education (3-0)

Critical perspectives on the development of Spanish/English literacy as relevant to bilingual education. Emphasizes the theoretical and practical conceptualization of both composition and reading theory. Includes a history of Spanish reading/writing methodology and the integration of bilingual multicultural literature. *Prerequisite:* BED 4340 with a grade of "B" or better.

4343 Sheltered ESL Instruction (2-1)

Explores English language development and academic language socialization with ESL/Bilingual students through the teaching of subject matter via a second language. Focus is twofold: (1) English as a Second Language development and methodology, and (2) Academic and cognitive development through sheltered instruction in content areas. *Prerequisite:* BED 4340 with a grade of "B" or better, admission to Teacher Education.

4344 Parent and Community Advocacy in Bilingual Education (3-0)

The development of advocacy within families and community as a means of participation in the educational process of their children with particular emphasis on parents of

children in Bilingual/ESL education programs. Emphasis on appreciation of cultural diversity and alternative ways of knowing among family and community. *Prerequisites:* BED 4340 with a grade of "B" or better

4393 Internship in Dual Language Education I (3-0-10)

As part of the internship, students enroll in Internship I of the field-based program. They are grouped in cohorts, assigned to dual language programs and scheduled all morning or all afternoon throughout the semester. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. The fieldwork consists of assisting in student-centered classroom instruction. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Dual Language Education II (3-0-20)

A continuation of BED 4393. Students enroll in Internship II of the field-based program and participate in student-centered classroom instruction as members of the instructional team. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of earlier semesters in developing an effective professional style. Interns are scheduled 3 times a week throughout the semester. *Prerequisites:* BED 4393 with a grade of "C" or better, and department approval.

4691 Student Teaching in Bilingual Education in the Elementary School (1-0-30)

Minimum of 15 weeks of all-day student teaching in a bilingual education classroom, plus 15 hours of seminars. Special admission requirements for student teaching. *Prerequisites:* All other professional studies courses, RED 3340, and admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

Early Childhood Education (ECED)

2330 Introduction to Early Childhood Education (3-1)

Introduction to the field of Early Childhood Education focusing on historical perspectives, current issues, types of curricula, and developmental practices.

3335 Language and Literacy in the Early Years (3-1)

Integration of literacy and language in early childhood education with emphasis in developmental reading and literacy for second language learners. Approaches to literacy development, developmental reading, and literacy acquisition for second language learners are addressed. A working knowledge of the transitional approach in literacy development from the child's first language to English is provided. Developmentally appropriate practices are integrated throughout the course. (May be taken as RED 3335)

4309 Social Studies Education in Primary Grades (3-3)

Approaches to teaching social studies in early childhood education and primary grades. Includes setting goals for instruction and content, teaching techniques and methods of evaluation. Theory and practice are integrated through field-based experiences in local schools. Emphasis on individual differences, application of learning theories, curriculum development and understanding of state and national standards for social studies. *Prerequisites:* Admission to Teacher Education and department approval.

4310 Teaching Mathematics in Primary Grades (3-3)

Methods for teaching mathematics in the primary grades. Emphasis on the equity principle (mathematics for all) and development of conceptual understanding on topics such as number sense, patterns and basic algebra, geometry and measurement, data analysis and probability. *Prerequisites:* Admission to Teacher Education and department approval.

4311 Teaching Science in Primary Grades (EC-4) (3-3)

Methods and materials for teaching science in pre-kindergarten through fourth grade. Emphasis on inquiry and standards-based teaching and learning. Includes computer applications and field experiences. *Prerequisites:* Admission to Teacher Education and department approval.

4353 Play Development in Early Childhood (3-0)

Explores how play interacts with emotional and intellectual development of the young child. Includes presentation of theories and research on play and their implementation in early childhood settings.

4356 Language Development for Young Children (3-0)

Oral and non-verbal communication, with particular attention to children in the Southwest. Theories of language development and research on the acquisition of communication skills. *Prerequisite:* Admission to Teacher Education.

4359 Children's Thinking in the Early Years (3-0)

The cognitive, social, and emotional development of children during the period of early childhood, the relationship of each of these types of developments to school settings, and appropriate and inappropriate objectives for children at particular stages of development in early childhood.

4393 Internship in Early and Primary Grades I (3-0-10)

As part of the internship, students enroll in Internship I of the field-based program. They are grouped in cohorts, assigned to early or primary grades (EC-4) and scheduled all morning or all afternoon throughout the semester. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. The fieldwork consists of assisting in student-centered classroom instruction mostly through tutorial duties and small group work. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Early and Primary Grades II (3-0-20)

A continuation of ECED 4393. Students enroll in Internship II of the field-based program and participate in student-centered classroom instruction as members of the instructional team. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of earlier semesters in developing an effective professional style. Interns are scheduled 3 times a week throughout the semester. *Prerequisites:* ECED 4393 and department approval.

4691 Student Teaching in the Early Grades (1-0-30)

Minimum of fifteen weeks of all-day student teaching in an early childhood classroom plus fifteen hours of seminars. Special admission requirements for student teaching. *Prerequisites:* All other professional studies courses, RED 3340, and admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

Educational and Career Technology (EDCT)

4300 Instructional Design, Delivery, and Assessment (3-2)

Basic principles of curriculum planning, instruction, and assessment in career and technical education settings, including methods of instruction for English language learners.

4301 Instructional Management, Safety and Relationships (3-2)

Management, safety, relationships, professional responsibilities and professional development for the career and technical educator.

4302 Educational Technology for Career and Technology Education Teachers (3-2)

Basic principles for creating a constructive, active, and generative learning environment. Technology integration and evaluation in the school classroom required.

4303 Internship I in Career and Technology (3-0-30)

First of two semesters of teaching in the classroom. Observation by the university instructor of the candidate's classroom teaching and seminars designed to relate the classroom instructional situation to corresponding educational theory. *Prerequisites:* Admission to the Teacher Education Program and department approval.

4304 Internship II in Career and Technology (3-0-30)

Second semester of teaching in the classroom. Observation by the university instructor of the candidate's classroom teaching and seminars designed to relate the classroom instructional situation to corresponding educational theory. *Prerequisites:* Admission to the Teacher Education Program and department approval.

4305 Teaching and Learning for Health Science Technology Teachers (3-2)

Methods and materials for teaching and learning the concepts of wellness, fundamentals of disease control, safety, roles of health care workers, technology, and the function of diagnostic, informational, and environmental systems of health care. *Prerequisite:* Admission to the Teacher Education Program and department approval.

Educational Technology (EDT)

3371 Educational Technology I (3-0)

Basic principles of educational technology for prospective teachers including terminology, historical development, social and ethical implications, proficiency in the application of technology tools, and integration of technology in school curricula.

See the *Graduate Catalog* for graduate programs and courses.

Middle School Education (MSED)

4309 Social Studies Education in Intermediate/Middle Grades (3-3)

Approaches to teaching social studies in intermediate and middle grades. Includes setting goals for instruction and content, teaching techniques and methods of evaluation. Theory and practice are integrated through field-based experiences in local schools. Emphasis on individual differences, application of learning theories, curriculum development and understanding of state and national standards for social studies. *Prerequisites:* Admission to Teacher Education and department approval.

4310 Teaching Math in Intermediate and Middle Grades (3-3)

Methods of teaching mathematics in intermediate and middle grades. Emphasis on the equity principle (mathematics for all) and development of conceptual understanding on topics such as real numbers and operation, geometry, algebra and functions, statistics and probability. *Prerequisites:* Admission to Teacher Education and department approval.

4311 Teaching Science in Intermediate and Middle Grades (3-3)

Methods and materials for teaching science in fourth through eighth grade. Emphasis on inquiry and standards-based teaching and learning. Includes computer applications and field experiences. *Prerequisites:* Admission to Teacher Education and department approval.

4393 Internship in Intermediate and Middle Grades I (3-10)

As part of the internship, students enroll in Internship I of the field-based program. They are grouped in cohorts, assigned to intermediate or middle grades (4-8) and scheduled all morning or all afternoon throughout the semester. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. The fieldwork consists of assisting in student-centered classroom instruction mostly through tutorial duties and small group work. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Intermediate and Middle Grades II (3-20)

Students enroll in Internship II of the field-based program and participate in student-centered classroom instruction as members of the instructional team. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experience of earlier semesters in developing an effective professional style. Interns are scheduled all day throughout the semester. *Prerequisites:* MSED 4393 with a grade of "C" or better and department approval.

Mathematics Education (MTED)

3330 Integration and Alternative Representation of Basic Mathematical Principles (3-0)

A course which integrates basic principles from various mathematical domains. Course will emphasize interrelationships among those principles and alternate conceptual representations of them. The representations will be analyzed to determine the mathematical skills and conceptual levels necessary to understand them.

Reading Education (RED)

2300 Literacy and Critical Thinking for the Pre-Professional (3-2)

Strategic literacy, test-taking, and analytic thinking for pre-education students who do not meet requirements for admission to teacher education. Includes strategies to support pre-professionals whose second language is English. May be repeated.

3335 Language and Literacy in the Early Years (3-3)

Integration of literacy and language with emphasis in early literacy, developmental reading and writing, and English literacy for second language learners in early childhood through fourth grade. Includes child development, approaches to literacy development, and literacy acquisition for second language learners. Developmentally appropriate practices in relationship to literacy are discussed. A working knowledge of the transitional relationship in literacy development from first language to English and its importance for sound teaching practices will be developed. (May be taken as ECED 3335)

3340 Developmental Reading in the Elementary and Middle Grades (3-0-2)

Developmental reading, emphasizing curriculum and materials for teaching reading in the elementary and middle grades, including methods of instruction for second language students.

3342 Reading and Study in the Content Areas (3-0-2)

Methods and materials for developing maturity in reading and study skills, especially in the content areas from K-12. Special emphasis is given to the development of interest, the matching of students to proper materials, and instructional techniques for integrating the teaching of skills with the teaching of content. Field experience required.

3343 Literacy in Technical Content Area (3-2)

Methods and material for developing maturity in the language arts especially in technical content areas from grade 8-12, including methods of instruction for English language learners. Special emphasis is given to the development of interest, the matching of students to proper materials, and instructional techniques for integrating the teaching of literacy skills with content.

4341 Assessment in the Teaching of Reading (3-0-2)

Standardized and informal materials and techniques for diagnosing strengths and weaknesses of individuals and groups, techniques and materials for building specific reading abilities, and methods of individualizing instruction and grouping. Identification and teaching strategies for dealing with dyslexia and other reading disorders. *Prerequisites:* ECED 3335, BED 3345, RED 3335, or RED 3340, each with a grade of "C" or better, admission to Teacher Education and department approval. Field experience required.

4343 Teaching Critical Reading (3-0)

Methods and materials for developing higher level cognitive and affective reading behaviors among students from K-12. Teaching strategies which provide for the development of critical-creative readers in both reading and content area subjects. *Prerequisites:* RED 3340 and admission to Teacher Education.

4344 Seminar in Reading (3-0)

Theories, materials, and research on topics including teaching reading through children's literature. *Prerequisites:* RED 3340 and admission to Teacher Education.

4345 Analysis, Evaluations and Development of Reading Materials (3-0)

Classroom language arts materials representative of various facets and philosophies in the teaching of reading/writing with major emphasis focused upon the development of criteria for the selection of materials appropriate for specific individuals and groups of children. *Prerequisites:* RED 3340 or RED 3342 and admission to Teacher Education.

4346 Literacy Practicum I (2-1)

Linguistic, cultural, sociological, and psychological foundations of the literacy processes; special emphasis on developing integrated reading-writing programs to meet the needs of diverse learners. *Prerequisites:* RED 3340 and RED 4341 each with a grade of "C" or better and admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

Secondary Education (SCED)

3311 Curriculum Planning in the Secondary School (3-0-2)

Basic principles of curriculum planning in the secondary school.

Field experience required.

3312 General Methods in the Secondary School (3-0-2)

Selection and usage of instructional methods in the secondary school. Field experience required.

3317 Multicultural Education in the Secondary School (3-0-2)

A survey of cultural education models, instructional methods, and classroom interaction processes in secondary schools that reflect the cultural composition of the United States. For secondary and all-levels students. *Prerequisite:* Admission to Teacher Education. Field experience required

4367 Teaching Math in Secondary School (3-0-2)

Materials and methods used in teaching mathematics in the secondary school. Skills in analysis and discovery, inquiry, and deductive teaching will be emphasized. Field experience required.

4368 Teaching Science in Secondary School (3-0-2)

Materials and methods used in teaching natural and physical science in the secondary school. Emphasis will be placed on developing skills in the use of inquiry, process approach, and discovery in teaching science. Field experience required.

4370 Teaching Business in the Secondary School (3-1)

Methods and materials used in teaching business subjects; the place of business in general education. Field experience required. *Prerequisite:* Admission to Teacher Education.

4393 Internship in Secondary Education I (3-0-20)

As part of the internship, students enroll in Internship I in the field-based program. Interns are grouped in cohorts, assigned to secondary (9-12) schools and scheduled three half days of internship per week throughout the semester. In addition to classroom teaching duties, interns are enrolled in university classes and internship seminars that help them apply their theoretical understandings to actual practice. The fieldwork consists of assisting in student-centered classroom instruction mostly through tutorial duties and small group work. *Prerequisites:* Admission to Teacher Education and department approval.

4394 Internship in Secondary Education II (3-0-20)

Continuation of SCED 4393. Students enroll in Internship II of the field-based program and participate in student-centered classroom instruction as members of the instructional team. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of earlier semester in developing an effective professional style. Interns are scheduled all day throughout the semester. *Prerequisites:* SCED 4393 with a grade of "C" or better and department approval.

4691 Student Teaching in the Secondary School (1-0-30)

Minimum of fifteen weeks all-day of student teaching in the secondary school plus fifteen hours of seminar. Special admission requirements for student teaching. *Prerequisite:* Admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.

Science Education (SIED)

3330 Integration and Alternative Representations of Basic Science Principles

(3-0)

A cross-disciplinary course which integrates basic science principles. Topics will be selected from the various sciences. Course will emphasize interrelationships among the various sciences and alternate conceptual representations of identified basic science principles.

Teacher Education (TED)

3330 Education and Communities: Applied Critical Pedagogy (3-3)

An examination of applied critical pedagogy and the multiple roles of teachers in the 21st century. Includes a field-based application of the socio-cultural foundations of education within the context of local schools and communities. Emphasizes the cultural, structural and institutional dynamics of schooling in multicultural and multilingual communities.

4350 Educational Workshop (3-0)

Studies in designated area. May be repeated for credit when topic varies. *Prerequisite:* Department approval.

4390 Internship I-All Levels Art, Music, Physical Education (3-0)

As part of the internship, students enroll in Internship I in the field-based program. Interns are assigned to elementary and/or secondary classrooms for three half days of internship per week throughout the semester. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. The fieldwork consists of assisting in student-centered classroom instruction mostly through tutorial duties and small group work. *Prerequisites:* EDPC 3300 with a grade of "C" or better, admission to Teacher Education and department approval.

4394 Internship II-All Levels Art, Music, Physical Education (3-0)

Continuation of TED 4390. Students enroll in Internship II of the field-based program and are assigned to elementary and/or secondary classrooms for three full days of internship per week throughout the semester. Interns participate in student-centered classroom instruction as members of the instructional team. In addition to classroom teaching duties, interns are enrolled in university classes and Internship Seminars that help them apply their theoretical understandings to actual practice. Interns demonstrate that they can synthesize the knowledge, values, and experiences of the earlier semester in developing an effective professional style. *Prerequisites:* TED 4390 with a "Satisfactory" and department approval.

4696 Student Teaching in All-Levels Art (1-0-30)

Minimum of 15 weeks of all-day student teaching (eight weeks in an elementary school; seven weeks in a secondary school), plus 15 hours of seminar. Special admission requirements for student teaching. *Prerequisite:* Admission to Teacher Education.

4697 Student Teaching in All-Levels Music (1-0-30)

Minimum of 15 weeks of all-day student teaching (eight weeks in an elementary school; seven weeks in a secondary school), plus 15 hours of seminar. Special admission requirements for student teaching. *Prerequisite:* Admission to Teacher Education.

4698 Student Teaching in All-Levels Physical Education (1-0-30)

Minimum of 15 weeks of all-day student teaching (eight weeks in an elementary school; seven weeks in a secondary school), plus 15 hours of seminar. Special admission requirements for student teaching. *Prerequisite:* Admission to Teacher Education.

4699 Internship-All Levels Inclusive (0-0-37)

Minimum of 15 weeks of all-day student teaching in elementary and secondary school settings plus 15 hours of seminar. Special admission requirements for student teaching. *Prerequisite:* Admission to Teacher Education.

See the *Graduate Catalog* for graduate programs and courses.



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College of Engineering

Engineers enjoy one satisfaction that not everyone can claim--they can point to tangible evidence of their efforts. Every modern structure, computer, jet aircraft, power-generating plant, or new automobile design is a lasting testimonial to the engineers responsible for it. Thus, to a great extent, our current standard of living and high level of technology are due to the diligent and innovative efforts of engineers. Future accomplishments could help increase energy and food supplies, develop more contamination-free power plants, aid in medical science's fight against disease, and expand our computational and design skills beyond imagination. A noted researcher once summarized the engineer's career satisfaction by pointing out that while scientists "explore what is," engineers "create what never has been."

The future for engineering graduates remains very bright. Our rapid pace of technological and industrial developments has established an ever-increasing need for highly talented and qualified professional engineers. In addition, the increasing demand for goods and services has imposed new challenges to present and future engineers. To provide these things and, at the same time, conserve resources and minimize environmental impact, engineers must recognize that solutions to long-standing societal problems are only found by thorough planning and study. With a capacity for problem solving, engineers may be the best-qualified persons to address society's problems.

The complexities of today's economy and environment are such that all resources must be used in an optimal manner. Thus, the College of Engineering, through its curricula, strives to educate and train engineers who have the desire to learn and the breadth of vision to formulate and solve the problems of today and tomorrow. It is expected that a student who applies himself or herself and successfully completes one of the engineering or computer science programs will not only be technically prepared but also broadly educated, and thus ready to make a significant contribution.

The College offers many programs of study that should be selected on the basis of personal ambitions, interests, and abilities. The student may choose the traditional BS degree and also consider advanced research-oriented graduate programs leading to the MS and PhD degrees. Within the College, the undergraduate programs in civil, electrical, industrial, mechanical, and metallurgical and materials engineering are accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012; telephone: (410) 347-7700. The breadth of modern computer technology is covered by BS and MS degrees in Computer Science and a computer engineering concentration in Electrical and Computer Engineering. The program leading to the BS in Computer Science is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, Maryland 21202-4012; telephone: (410) 347-7700.

To recognize outstanding achievement and encourage professional activities, each program has one or more active student sections of the appropriate professional and honor societies. Additionally, there are campus chapters of professional societies that cover all fields of engineering. Participation in these groups provides a valuable educational and professional experience and students are encouraged to participate to the extent of their eligibility.

College Vision Statement

The Vision of the College of Engineering at the University of Texas at El Paso is **to change the face of engineering**.

College Mission Statement

The Mission of the College of Engineering at the University of Texas at El Paso is **access to excellence**.

Mathematics Preparation

In addition to the usual preparatory work, applicants to the College of Engineering are expected to have at least two years of algebra, one year of geometry, and one semester of trigonometry or Pre-Calculus in preparation for their freshman year.

Transfer Course Work

A student may transfer a maximum of 66 semester hours, limited to lower-division courses, from two-year junior or community colleges. A maximum of 100 semester hours of courses is transferable from accredited U.S. colleges and universities. Transfer credit for engineering courses is restricted to ABET-accredited curricula or is awarded on the basis of departmental recommendation. Transfer students may be required to take competency exams and/or take specified courses that the department feels they must have in order to establish the quality of their degree. Credit for upper division engineering courses will be given only on the basis of departmental recommendation.

The academic records of all transfer students are reviewed by the College of Engineering to determine eligibility for admission into an engineering program. International students must meet the additional requirement of an overall minimum GPA of 3.0 in mathematics, chemistry, physics, and engineering for all institutions attended.

All transfer credit that is to be applied toward undergraduate engineering degree requirements must be approved by the Dean of Engineering. Transfer credit evaluation should be completed when the student transfers to the College or before completion of the lower-division requirements.

Change of Major

1. All petitions for change of major to or within the College of Engineering are subject to the approval of the head of the program gaining the student.
2. Any student enrolled in a non-engineering program at the University may change his or her major to a program in the College of Engineering if he or she has demonstrated an aptitude for the engineering or computer science profession and is qualified to enroll for MATH 1411 in his or her first semester of engineering or computer science.
3. Any student enrolled in an engineering program at the University may change his or her major to another program in the College of Engineering if he or she has a minimum overall GPA of 2.0 and earned a minimum GPA of 2.0 in the semester previous to applying for the change of major.
4. All students entering the College of Engineering must follow the catalog (or a later catalog) that is in effect at the time of their transfer.

Lower-Division Program

1. A student entering the College of Engineering must complete the designated lower-division course block prior to enrolling in the upper-division engineering or computer science sequence or any junior/senior classes. The lower-division course block is comprised of English, science, engineering, and mathematics courses listed in the freshman and sophomore years.
 - a. Enrollment in upper-division courses prior to completion of the lower-division requires permission of the student's program head.
 - b. Substitutions of lower-division course requirements require the permission of the student's program head.
2. Completion of the lower-division block also requires a minimum 2.0 GPA for the lower-division courses designated by the program and a "C" or better in certain specified courses.
3. Any student who does not satisfy the "C" minimum rule in the appropriately designated courses must repeat those courses.
4. Any student who has not met the requirements for satisfactory completion of the lower-division block as stated above or who fails to make satisfactory progress toward a degree will be denied subsequent enrollment in the College of Engineering.

Pre-Engineering Program

The Entering Students Program for Engineering and Science

Circles of Learning for Entering Students (CircLES)

Program Description

Circles of Learning for Entering Students (CircLES) is a comprehensive retention program targeting first-time freshman and first-time transfer students in the sciences, engineering and mathematics (SEM). The goals of CircLES are to increase retention, improve academic performance, and add value to a student's education through the creation of an environment where students make connections with the university, the colleges, faculty, upper-division students, and their peers. A learning environment is emphasized in the first year where entering students can be successful and begin to develop lifelong learning habits. There are four major foci within the CircLES Program, all coordinated by the Director of the Entering Student Program: 1) a mandatory college-specific orientation program in the summer prior to matriculation; 2) mandatory placement in learning communities (clusters) in the first year; 3) strong developmental advising and early intervention; 4) leadership development. Since its inception, the CircLES program has become recognized as a model on campus and elsewhere for creating a strong foundation for entering students to springboard them toward a successful college and (eventually) professional career.

Students wishing to major in engineering or computer science will be classified as pre-engineering students for not less than one semester after admission to the University. Students must fulfill all Pre-Engineering requirements and must:

1. Complete the specified orientation program.
2. Meet with a pre-engineering advisor each semester.
3. Complete an approved program of study that may include one or more of the following courses: UNIV 1301; ENGR 1100, 1300, 1400, 1401, MATH 0310, 0311, 1411, 1508; ENGL 0310, 0311, 1311, 1312. Although required for the pre-engineering program, some of these courses do not meet departmental degree requirements. Check with your CircLES advisor.
4. Maintain a minimum overall GPA of 2.0 in all designated courses.
5. Complete certain specified courses with a "C" or better.
6. Make satisfactory progress toward completion of the pre-engineering program.

Upon completion of the pre-engineering program requirements, students will petition for a change of major into a selected engineering program.

Limit on Engineering Course Enrollments

The maximum number of times an engineering or computer science course can be taken is three. All enrollments in a course that result in a grade of "A," "B," "C," "D," "F," or "W" will be counted. Once a student has reached the maximum of three enrollments, he or she will not be allowed to enroll in the course a fourth time. If the course is required in the student's degree plan, the student will not be able to complete the requirements for that degree. Once a student has obtained a "C" or better in an engineering or computer science course, that course may not be repeated for credit.

Enrollment in Engineering/Computer Science Courses by Non-Majors

Enrollment in nearly all engineering and computer science courses is restricted to students with the appropriate majors. Students from outside the engineering college wishing to take engineering/computer science courses should request permission from the head of the program offering the course.

Double Majors

Students in the College of Engineering may pursue more than one undergraduate degree. However, all requirements for each degree must be completed before the degree can be awarded.

Cooperative Education

Cooperative education is a program which integrates a student's formal academic study with special periods of practical work experience in business, industry, government, or professional or service organizations. These work experiences are an integral part of the student's education, supplementing academic knowledge and promoting and encouraging personal development and professional preparation. The academic value of work completed under the cooperative education program is recognized by allowing credit to be earned for completion of three work periods and submission of required reports. Contact the Dean of Engineering for information on the availability of co-op work assignments.

Five-Year Bachelor/Master of Science Program

The College of Engineering provides an opportunity for qualified students to participate in a five-year bachelor/master of science degree program. The program is structured to allow qualified engineering students to enter a graduate research or design program during the senior year of the bachelor's degree. During this fourth year, the student may reserve certain courses for graduate credit, work actively on a research project for nine months, or be considered for employment as a teaching or research assistant at the appropriate salary. Both the bachelor's and master's degrees can be completed in five academic years.

Graduate Study

The traditional Master of Science (MS) degree is available in civil engineering, computer engineering, computer science, electrical engineering, industrial engineering, manufacturing engineering, mechanical engineering, and metallurgical and materials engineering. This degree is research-oriented, normally requiring a thesis and up to 27 hours of graduate course work. The Master of Science in Environmental Engineering (MSEnE) and the Master of Engineering in Environmental Engineering (MEEnE) are also offered. Ph.D. degrees are offered in civil engineering, computer engineering, computer science, materials science and engineering, and environmental science and engineering.

Students who rank high in their undergraduate class should give serious consideration to developing their full intellectual potential in engineering by continuing with advanced studies at the graduate level. For those students interested in the practice of professional engineering, the Master of Science in Engineering (MSE) degree should be given serious consideration. The program involves 33 hours of coursework without a thesis. Possible areas of specialization include business management, operations research, computer science, and others. Graduate programs are more fully discussed in the Graduate Catalog.

Degree Plans

For degree plans, please click [here](#) and select your desired major.

Course Information

For course descriptions, please click [here](#) and select Basic Engineering (BE) or Engineering (ENGR).



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Civil Engineering

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PROFESSORS: Ferregut, Li, Nazarian, Oey, Osegueda, Tarquin, Turner, Walton
ASSOCIATE PROFESSOR: Carrasco, Cheu, Tandon
ASSISTANT PROFESSORS: Gharaigeh, Shokouhi

Civil Engineering (CE)

General Prerequisite: Junior standing in Civil Engineering or written permission of the instructor for all 3000-4000-level courses.

3313 Engineering Measurements (2-3)

Theory and practice of surveying measurements with emphasis on precision, errors, and significant figures, the use of the level, transit, and engineer's tape. *Prerequisites:* BE 1205 with a grade of "C" or better and junior standing in Civil Engineering or department approval.

3325 Environmental Engineering Fundamentals (3-0)

Introduction to the engineering aspects of environmental systems to include such topics as mass and energy balances, sustainable systems, water pollution, air pollution and control, solid and hazardous waste management, and governmental regulation. *Prerequisite:* Junior standing in engineering or science.

3335 Geological Engineering (2-3)

The objective of the course is to introduce students to the principles of physical geology and their applications in the civil engineering profession. At the end of the course, students will have a foundation in geology such that they will be able to communicate with geologists and geophysicists or read geological reports that are pertinent to engineering projects. Emphasis in laboratories will be placed on practical engineering problems that require the use of geology and geophysics. *Prerequisites:* BE 1205 and BE 2303 each with a grade of "C" or better and department approval.

3336 Civil Engineering Materials (2-3)

Properties of civil engineering materials, measurements and test methods, relationship of properties to performance; their structure and behavior: relationship between structure and behavior. *Prerequisite:* BE 2434 with a grade of "C" or better.

3343 Structural Analysis (2-3)

A study of framed structures, trusses, girders, and beams including applications of static and moving loads on bridges. *Prerequisites:* BE 2434 with a grade of "C" or better and junior standing in Civil Engineering or department approval.

4153 Water and Waste Laboratory (0-3)

Laboratory analysis of water and wastes. *Prerequisites:* CE 4342 and junior standing in Civil Engineering or department approval. CE 4342 may be taken concurrently with CE 4153.

4171 Engineering Problems (0-0-1)

4271 Engineering Problems (0-0-2)

4371 Engineering Problems (0-0-3)

Original investigation of special problems in the student's field, the problem to be selected by the student with the approval of the head of the department. May be repeated for credit. *Prerequisites:* Senior standing and department approval.

4181 Co-op Work Experiences (0-0-1)

4182 Co-op Work Experiences (0-0-1)

4183 Co-op Work Experiences (0-0-1)

4185 Co-op work Experiences (U-U-1)

Work experience in business, industrial, governmental, professional, service, or other organizations to provide on-the-job training and professional preparation in the student's area of interest. A report covering the work experience must be submitted by the student to the departmental Co-op coordinator at the end of each work period. Upon completion of his or her third work period and submission of a report summarizing the total work experience, a student can use three hours of Co-op Work Experience in his or her degree plan in place of a technical elective or elective in the major. *Prerequisites:* Selection by the Co-op Coordinator, program head, and employer and junior standing in Civil Engineering.

4188 Senior Design I (0-3)

Conceptual and preliminary design projects. *Prerequisites:* Department approval and minimum of 100 hours of Civil Engineering Curriculum completed.

4195 Senior Professional Orientation (1-0)

Introduction to the Engineering profession with emphasis on job placement, professional ethics, and an engineering field examination. Required of all students prior to graduation.

4288 Senior Design II (1-3)

Final design project.

4335 Structural Design I (3-0)

Reinforced concrete theory, design of beams, columns, slabs, footings, and retaining walls using current design specifications. *Prerequisites:* CE 3343, CE 3336, and junior standing in Civil Engineering or department approval.

4340 Transportation Engineering (3-0)

Study of planning, economics, finance, location, design, and administration of transportation systems. *Prerequisite:* CE 3313. CE 3313 may be taken concurrently with CE 4340.

4342 Water and Wastewater Engineering (3-0)

Study of basic processes involved in conventional water and wastewater treatment plants. Coverage includes theory and preliminary design considerations. *Prerequisites:* BE 2375 and junior standing in Civil Engineering or department approval.

4348 Geotechnical Engineering (2-3)

Physical and mechanical properties of soils, plasticity, shrinkage, permeability seepage, consolidation, shear strength, Rankine and Coulomb earth pressure and braced cuts. *Prerequisites:* BE 2434, BE 2375, each with a grade of "C" or better, and GEOL 3321.

4361 Structural Design II (3-0)

Design of steel structures including the application of plastic design methods using current design specifications. *Prerequisites:* CE 3343 and department approval.

4375 Advanced Topics in Civil Engineering (3-0)

Presentation of contemporary issues and advanced topics in all areas of Civil Engineering. *Prerequisite:* Department approval.

4388 Senior Design (1-6)

Conceptual, preliminary, and final design projects. *Prerequisites:* Department approval and minimum of 115 hours of Civil Engineering Curriculum completed.

4456 Hydraulic Engineering (3-3)

Essential principles of hydraulics and hydrology demonstrated in the laboratory and applied to the design of hydraulic structures. *Prerequisites:* BE 2375 and Junior standing.

See the *Graduate Catalog* for graduate programs and courses.

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Computer Science

234 Computer Science Building
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PROGRAM CHAIRPERSON: Ann Q. Gates
PROFESSORS: Gates, Kreinovich, Novick, Teller
ASSOCIATE PROFESSORS: Fuentes, Longpré, Roach, Ward
ASSISTANT PROFESSORS: Cheon, Freudenthal, Modave, Pinheiro da Silva
LECTURERS: Romero, Roy, Sassenfeld

Computer Science (CS)

1310 Introduction to Computer Programming (3-0)

(* COSC 1301)

Through the direct manipulation of multimedia such as sounds and images, students learn the basics of programming in high level languages (such as Python). Skills learned are applicable towards a wide range of applications and career tracks. The course does not assume that the student is engaged in mathematically oriented studies.

1401 Introduction to Computer Science (3-3)

(* COSC 1430)

First course for students majoring in Computer Science. Introduction to problem solving with computers, including representation, control structures, and software development methods; closed laboratory and programming assignments in a high-level language; programming environments; social and ethical aspects of computing.
Prerequisite: MATH 1508 or MATH 1411 each with a grade of "C" or better.

1420 Computer Programming for Scientists and Engineers (3-3)

Introduction to computers and problem solving with digital computers. A procedural programming language will be utilized to solve scientific and engineering oriented problems. Visualization methods will also be used to provide an experimental approach to problem solving. *Prerequisite:* MATH 1508 or MATH 1411 each with a grade of "C" or better.

2401 Elementary Data Structures and Algorithms (3-3)

(* COSC 1418)

Second course for students majoring in Computer Science. Fundamental computing algorithms, including searching and sorting; elementary abstract data types including linked lists, stacks, queues and trees; introduction to algorithm analysis. *Prerequisite:* CS 1401 with a grade of "C" or better.

2302 Data Structures (3-3)

(* COSC 2418)

The definition and implementation of abstract data types; representation of data using sets, lists, trees, and graphs; the design and implementation of traversal, search, and sort algorithms; and the space and time analysis of algorithms. *Prerequisites:* CS 2401 and MATH 2300 each with a grade of "C" or better.

3190 Special Topics in Programming (1-0)

Essential constructs and usage of either a programming language (e.g., C, PROLOG, Haskell, C++, Perl), an operating system (e.g., Unix), or advanced topics within a particular language or OS (e.g., CGI programming, Java GUI programming, Windows GUI programming, Motif). Intended to allow advanced students to acquire working proficiency quickly. The language/OS will vary. May not be counted toward the major in Computer Science. May be repeated for credit when the topic differs. *Prerequisite:* CS 3360 with a grade of "C" or better.

3195 Junior Professional Orientation (1-0)

Introduction to the Computer Science profession with a special emphasis on professional ethics. Required of all students prior to graduation. *Prerequisite:* CS 2302 with a grade of "C" or better.

3320 Computer Architecture II: Advanced Computer Design and Implementation (3-0)

The organization and structure and the major hardware components of computers; the mechanism of information transfer and control within digital computers; the

the organization and structure and the major hardware components of computers; the mechanics of information transfer and control within digital computer systems. *Prerequisite:* CS 3432 and EE 2369 each with a grade of "C" or better.

3331 Advanced Object-Oriented Programming (3-0)

An in-depth exposure to the object-oriented programming paradigm, which builds upon programming experience gained in lower-level computer science classes. Emphasis on programming in an object-oriented language and on requirements, testing, code reading, and comprehension. *Prerequisite:* CS 2302 with a grade of "C" or better.

3335 Systems Programming (3-0)

The design and implementation of the programming environment including editors, compilers, loaders and linkers, debuggers and operating systems. *Prerequisite:* CS 2302 with a grade of "C" or better.

3350 Automata, Computability, and Formal Languages (3-0)

Theoretical computing models and the formal languages they characterize: finite state machines, regular expressions, pushdown automata, context-free grammars, Turing machines and computability. Capabilities and limitations of each model, and applications including lexical analysis and parsing. *Prerequisite:* CS 2302 with a grade of "C" or better.

3360 Design and Implementation of Programming Languages (3-0)

Design features of modern programming languages including flow control mechanism and data structures; techniques for implementation of these features. *Prerequisite:* CS 3331 with a grade of "C" or better.

3370 Computer Graphics (3-0)

An introduction to representation and display of graphical information including line, character, and curve generation. Emphasis on two-dimensional techniques. *Prerequisites:* CS 2302 and MATH 3323 each with a grade of "C" or better.

3432 Computer Architecture I: Basic Computer Organization and Design (3-3)

Compile and assembly processes; machine organization; fetch/decode/execute process; symbolic coding of instructions and data, including instruction types, formats, and addressing modes; implementation of data and control structures, subroutines, and linkage; and input/output handling at the assembly level, including memory-mapped I/O and interrupt and exception handling. *Prerequisites:* CS 2302 and EE 2369 each with a grade of "C" or better.

4181 Undergraduate Seminar (1-0)

Advanced topics in computer science. Presentation and discussion of various topics in computer science by faculty, students, speakers from other institutions and from industry.

4191 Introduction to Computer Science Research (0-0-1)

Introduction to the basic skills needed for research, including oral presentation skills, report writing skills, comprehension, critiquing and feedback skills, teamwork skills, and research skills such as formulating a problem, planning research efforts, and managing time. These skills are taught in a group environment as part of a research project. Participation requires departmental approval and permission of the faculty member(s) supervising the student's research. *Prerequisite:* Department approval.

4195 Senior Professional Orientation (1-0)

Continuation of CS 3195. Further introduction into the Computer Science profession with emphasis on job placement. Senior standing required. May not be counted toward the major in Computer Science.

4310 Software Engineering: Requirements Engineering (3-0)

Methodologies, approaches, and techniques associated with software requirements analysis and definition; process for defining requirements of a system including feasibility study, requirements elicitation, formal specification, modeling, validation, verification, and documentation; other topics include cooperative teamwork and project management; first semester of a two-semester capstone project in which students work with a customer to capture and specify requirements for a real-world application. *Prerequisite:* CS 3331 with a grade of "C" or better and Department approval.

4311 Software Engineering: Design and Implementation (3-0)

Methodologies, approaches, and techniques associated with software design, implementation, and testing of a software system; other topics include cooperative teamwork, project management, and documentation; second semester of a two-semester capstone project in which students design and implement a real-world application specified in CS 4310. *Prerequisite:* CS 4310 with a grade of "C" or better.

4316 Computer Networks (3-0)

Introduction to data communications. Covered topics include: data transmission, link control, encoding, multiplexing, switching, network topologies, address resolution, protocol layering, routing methods, data security, and distributed systems. *Prerequisites:* CS 2302 and EE 3384 each with a grade of "C" or better.

4317 Human-Computer Interaction (3-0)

Models and methods of human-computer interaction. Human perception and cognition; properties of input and output devices; interface development methods, including task analysis, user-centered design, prototyping; evaluation techniques such as heuristic evaluation, cognitive walkthroughs, usability testing; design for the desktop, the Web, and mobile devices; user interface programming. *Prerequisite:* CS 2302 with a grade of "C" or better.

4320 Artificial Intelligence (3-0)

Introduction to basic concepts and techniques of artificial intelligence including knowledge representation, search strategies, symbolic logic, expert systems, and applications. *Prerequisite:* CS 2302 with a grade of "C" or better.

applications. *Prerequisite:* CS 2302 with a grade of "C" or better.

4342 Database Management (3-0)

Introduction to data base concepts, hierarchical, network and relational data models, data description and query languages, file and index organization, and file security and integrity. *Prerequisite:* CS 2302 with a grade of "C" or better.

4351 Computer Security (3-0)

General concepts and applied methods of computer security, especially as they relate to confidentiality, integrity, and availability of information assets. Topics include system security analysis; access control and security models; identification and authentication; protection against external and internal threats; communication protocols; Internet security. *Prerequisite:* CS 3331 with a grade of "C" or better.

4352 Compilers and Interpreters (3-0)

The structure of compilers and interpreters: lexical syntax and semantic analysis, formal description of programming languages, parsing techniques, intermediate languages, optimization and code generation. *Prerequisite:* CS 3350 with a grade of "C" or better.

4365 Topics in Soft Computing (3-0)

Introduction to basic concepts and techniques of soft computing, including neural, fuzzy, evolutionary, and interval computations, and their applications. This course may be repeated for credit when topic varies. *Prerequisites:* MATH 4329.

4371 Computer Science Problems (0-0-3)

Original investigation of special problems selected by the student in consultation with the instructor and with the permission of the Chairperson of the Computer Science Department. May be repeated for credit. *Prerequisites:* Senior standing in Computer Science and department approval.

4375 Theory of Operating Systems (3-0)

Process and thread management, concurrency, memory management, processor scheduling, I/O management and disk scheduling, and file management. *Prerequisite:* CS 3320 with a grade of "C" or better.

4390 Special Topics in Computer Science (3-0)

Selected topics of current interest in Computer Science. May be repeated for credit when topic varies. *Prerequisites:* Senior standing in Computer Science and department approval.

4392 Research Methods in Computer Science (3-0)

An advanced course in the skills needed for research in Computer Science, including a survey of the various research paradigms and experimental protocols used across the field. Within a particular research area of the student's choice, a student will learn to: judge whether a question is a research question; design an appropriate experiment to answer a research question; interpret the results of an experiment, including selection and application of appropriate statistical tests; present and defend their research orally and in writing.

4393 Senior Project (0-0-3)

Research and analysis leading to a new publishable theoretical result or a new useful sophisticated piece of software. Includes formal project proposal, generation of a well-documented report, and a presentation of the results to faculty and students. Intended to allow advanced undergraduate students to actively and productively participate in research. A research topic must be selected by the student in consultation with the instructor and with the permission of the Head of Computer Science. *Prerequisite:* Department approval.

See the *Graduate Catalog* for graduate programs and courses.

✦ Indicates Texas Common Course Number

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Electrical and Computer Engineering

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ASSOCIATE PROFESSORS: Cabrera, Lush, Moya, Nava, Nazeran, Sarkodie-Gyan, Usevitch, Zubia
ASSISTANT PROFESSORS: Gonzalez, MacDonald, Quinones, Rosiles, von Borries, Yao
LECTURERS: Granda, Rodriguez, Rubio, Woo
ADJUNCT PROFESSORS: Abedin, Goldman, Brower
ADJUNCT ASSOCIATE PROFESSORS: Mreles, Moussavi

Electrical and Computer Engineering (EE)

General Prerequisite: Junior standing for all 3000 or 4000-level courses.

1105 Laboratory for Electrical Engineering 1305 (0-3)

Introduction to Electrical Engineering laboratory procedures, causes, and correction of errors in measurements, theory of operation and usage of basic Electrical Engineering test instruments, and report writing. *Corequisite:* EE 1305.

1305 Introduction to Electrical Engineering (3-0)

An introduction to mathematical and systems concepts that form the basis for electrical engineering. Includes an introduction to circuit components, voltage and current concepts. Also included are sinusoidal signal characteristics, basic filter responses and bandwidth concepts. *Corequisite:* EE 1105. *Prerequisite:* MATH 1508 with a grade of "C" or better.

2151 Laboratory for Electrical Engineering 2351 (0-3)

Use of oscilloscopes, function generators, and power supplies to test and study electrical networks and their behavior. Technical writing and computer aided design. *Corequisite:* EE 2351. *Prerequisite:* EE 1105 with a grade of "C" or better.

2169 Laboratory for EE 2369 (0-3)

Implementation and testing of basic combinational and sequential digital systems. *Corequisite:* EE 2369. *Prerequisite:* EE 1305 or CS 1401 with a grade of "C" or better.

2351 Electric Circuits (3-0)

Theory of electric circuits including Kirchhoff's laws, mesh and nodal analysis. Transient analysis of RC, RL, and RLC circuits. Laplace Transform, transfer function and convolution concepts. *Corequisite:* EE 2151. *Prerequisites:* EE 1305, MATH 2313, MATH 2326, and PHYS 2421, each with a grade of "C" or better. MATH 2313 and MATH 2326 may be taken concurrently with EE 2351.

2369 Digital Systems Design I (3-0)

Design and synthesis of digital systems using both combinational and sequential circuits. Includes laboratory projects implemented with standard ICs. *Corequisite:* EE 2169. *Prerequisite:* EE 1305 or CS 1401 with a grade of "C" or better.

2372 Software Design I (3-0)

An introduction to software design with a structured computer language that focuses on the construction of programs consisting of multiple functions residing in multiple files. Covers program creation and top-down-design, basic elements and operations, modular program construction, and the use of programming tools such as make files. Introduces object oriented programming techniques. *Prerequisite:* EE 1305 or CS 1401 with a grade of "C" or better.

3109 Computer-aided Digital Design (1-2)

Design of digital circuits using CAD tools. Includes schematic capture, simulation, and hardware description language. *Prerequisites:* EE 2351 and EE 2369, each with a

grade of "C" or better.

3138 Laboratory for Electronic Networks (0-3)

Introduction to experimental analysis of junction diodes, bipolar junction transistors, and junction field effect transistors. Frequency response measurements of operational amplifier circuits. Fourier analysis. PSPICE simulations. *Corequisite:* EE 3438. *Prerequisite:* EE 2351 with a grade of "C" or better.

3176 Laboratory for Electrical Engineering 3376 (0-3)

Assembly language programming of microcomputer systems.

Corequisite: EE 3376.

3321 Electromagnetic Field Theory (3-0)

Fundamental laws and concepts of static and time-varying electromagnetics, wave propagation in free space and lossy media, wave reflections, transmission lines, basic radiation sources and arrays. *Prerequisite:* EE 2351 with a grade of "C" or better.

3329 Electronic Devices (3-0)

Energy band models, electron and hole concentrations and transport, p-n junction, bipolar junction transistors, and field effect devices. *Prerequisites:* PHYS 3325 and EE 3321, each with a grade of "C" or better.

3340 Linear Integrated Circuits (3-0)

Analysis and design of linear integrated circuits stressing impedance levels, gains, and frequency responses. Complex plane concepts. Active filter and oscillator design. Pulse response and stability analysis. *Prerequisites:* EE 3438 with a grade of "C" or better.

3353 Signals and Systems (3-0)

Representation and analysis of continuous and discrete time signals; time and frequency analysis of linear time-invariant systems; convolution, differential and difference equations. Fourier Series and Transform. Z-transform.

Prerequisite: EE 2351 with a grade of "C" or better.

3354 Intro to Communication Networks (3-0)

Familiarization with communication networks through simulation experiments done with computer software. Topics include Protocol Layers, Link Analysis, Circuit & Packet switches, LANs and Internet Protocols. *Prerequisites:* EE 2351, and EE 2372, each with a grade of "C" or better.

3372 Software Design II (3-0)

An introduction to object-oriented software design. Covers basic language elements, operations, and design concepts; emphasizes program design and construction using extensible, reusable modules. *Prerequisites:* EE 2372, EE 3176, and EE 3376, each with a grade of "C" or better.

3376 Microprocessor Systems I (3-0)

Study of microprocessor programming models, assembly language, macro assemblers, and an introduction to system integration and interfacing. *Corequisite:* EE 3176. *Prerequisites:* EE 2372, EE 2369, and EE 2351, each with a grade of "C" or better. EE 3176 must be taken concurrently with EE 3376.

3384 Probabilistic Methods in Engineering and Science (3-0)

Problems involving discrete and continuous random variables, distribution functions, moments, statistical dependence, and an introduction to statistical methods. Emphasis to be on formulation of physical problems. *Prerequisite:* MATH 2313 and MATH 3323, each with a grade of "C" or better.

3385 Energy Conversion (3-0)

Theory and performance characteristics of electro-mechanical energy conversion equipment to include transformers and both d-c and a-c generators and motors and the control devices employed therewith. *Prerequisite:* EE 3353 with a grade of "C" or better.

3438 Electronic Circuits (4-0)

Continuation of networks and introduction to electronic devices: Power computations in sinusoidal steady state. Filters, resonance, transfer functions, and two-port concepts. Diodes, bipolar junction and field effect transistor amplifiers. *Corequisite:* EE 3138. *Prerequisite:* EE 2351 and EE 2151, each with a grade of "C" or better.

4142 Laboratory for Electrical Engineering 4342 (0-3)

Design and verification of digital systems using simulation. Laboratory implementation using standard, integrated circuits and programmable logic devices. *Corequisite:* EE 4342.

4153 Laboratory for Electrical Engineering 4353 (0-3)

Simulation, fabrication and testing of MOS technology. Includes silicon oxidation, lithography, etching, thin film deposition and diffusion. *Corequisite:* EE 4353. *Prerequisite:* EE 3329 with a grade of "C" or better.

4171 Engineering Problems (0-0-1)

4371 Engineering Problems (0-0-3)

Original investigation of special problems in the student's field, the problem to be selected by the student with the approval of the head of the department. A maximum of three credit hours of engineering problems may be applied toward the BS degree. *Prerequisites:* Senior standing and department approval.

4178 Laboratory for Electrical Engineering 4378 (0-3)

Use of development tools in the design and implementation of microprocessor-based systems. *Corequisite:* EE 4378.

4181 Co-op Work Experiences (0-0-1)**4182 Co-op Work Experiences (0-0-1)****4183 Co-op Work Experiences (0-0-1)**

Work experience in business, industrial, governmental, professional, service, or other organizations to provide on-the-job training and professional preparation in the student's area of interest. A report covering the work experience must be submitted by the student to the departmental Co-op coordinator at the end of each work period. Upon completion of his or her third work period and submission of a report summarizing the total work experience, a student can use three hours of Co-op Work Experience in his or her degree plan in place of a technical elective or elective in the major. *Prerequisite:* Selection by the Co-op Coordinator, department chairperson, and employer.

4195 Senior Professional Orientation (1-0)

Introduction to the engineering profession with emphasis on job placement and ethical conduct in the engineering workplace. Required of all students prior to graduation.

4210 Electrical Engineering Laboratory II (1-4)

Experimental introduction to modulation, communication and IF transformers, transmission lines, wave guides, and antenna measurements. Emphasis on laboratory investigation using specialized instrumentation. *Prerequisites:* EE 3138, EE 3321 and EE 3340, each with a grade of "C" or better. EE 3138 and EE 3340 may be taken concurrently with EE 4210.

4220 Senior Project Laboratory I (2-4)

Research and analysis leading to a preliminary design for an approved engineering project. Includes formal project proposal and work plan; specification of functional, performance and cost goals; generation of computer-aided design documents and simulation or modeling results. Design process is concluded in EE 4230 through prototyping, testing, and revisions. *Prerequisites:* EE 3109, EE 3176, EE 3321, EE 3340, EE 3353, and EE 3376, each with a grade of "C" or better; and EE 3329. EE 3329 may be taken concurrently with EE 4220. Laboratory fee required.

4230 Senior Project Laboratory II (1-4)

Laboratory development of special projects concerned with various electrical systems. Small group or individual semester projects are stressed.

Prerequisite: EE 4220 with a grade of "C" or better, and EE 3329.

4341 Communication Systems (3-0)

Spectral density and correlation; sampling theory; linear, angle, and pulse modulation; random signals and noise; effects of noise in modulation systems. *Prerequisites:* EE 3353 and EE 3384, each with a grade of "C" or better.

4342 Digital Systems Design II (3-0)

Design techniques for complex digital systems, with emphasis on computer hardware design and computer-aided techniques, including hardware description languages and hardware simulation packages. Algorithmic State Machine design is stressed for small systems. Emphasis on problem definition, design, and verification. *Corequisite:* EE 4142. *Prerequisite:* EE 3376 with grade of "C" or better.

4347**Applied Electromagnetics (3-0)**

The study of static and time-varying electromagnetic principles and laws in their application to modern technology, natural phenomena, as well as to scientific and industrial devices and systems from dc to microwave frequencies. *Prerequisite:* EE 3321 with a grade of "C" or better.

4350 Integrated Circuits and Semiconductor Devices (3-0)

Bipolar and MOS integrated circuits, microelectronic processing technology, microwave devices, photonic devices, and power semiconductor devices. *Prerequisite:* EE 3329 with a grade of "C" or better.

4352 Power Electronics (3-0)

An introduction to power electronic devices (diodes, thyristors, MOSFET's, IGBT's, power electronic circuits (rectifiers, DC converters, inverters) and their applications (power supplies, DC and AC motor drives). *Prerequisite:* EE 3438 with a grade of "C" or better.

4353 VLSI Nanotechnology (3-0)

Introduction to the science and technology of integrated device/circuit fabrication. Includes silicon oxidation, lithography, etching, thin film deposition, diffusion and ion implantation. *Corequisite:* EE 4153. *Prerequisite:* EE 3329 with a grade of "C" or better.

4356 Real Time Signal Processing and Communications (3-0)

A project based course where filtering, spectral analysis, and modulation algorithms are implemented on modern signal processing circuits. This class is programming intensive, emphasizing the practical aspects of design over theory. *Prerequisites:* EE 3353 and EE 3376, each with a grade of "C" or better.

4361 Fiber Optic Communications (3-0)

Light propagation using ray and electromagnetic mode theories, dielectric slab waveguides, optical fibers, attenuation and dispersion in optical fibers, optical fiber transmitters and receivers, electro-optical devices, and optical fiber measurement techniques. *Prerequisites:* EE 3438 and EE 3321, each with a grade of "C" or better.

4364 Systems and Controls (3-0)

Analysis and design of discrete and continuous time linear systems. Relationships between frequency and time domain design. Analysis of system stability and performance using root locus, lead lag compensation, and other techniques. Applications to electromechanical systems. *Prerequisite:* EE 3353 with a grade of "C" or better.

4365 Topics in Soft Computing (3-0)

Basic concepts and techniques of soft computing, including neural, fuzzy evolutionary, and interval computations, and their applications. *Prerequisites:* EE 3353 and EE 3384, each with a grade of "C" or better.

4366 Fuzzy Logic and Engineering (3-0)

Underlying philosophy of the theory of fuzzy sets and its applications in engineering. Fuzzy logic, fuzzy reasoning and rules, and fuzzy systems. Decision-making in the realm of vague, qualitative and imprecise data. Current models, simulation tools, hardware implementations and their applications will also be covered. *Prerequisites:* EE 3353 and EE 3384, each with a grade of "C" or better.

4372 Microcontroller Applications (2-3)

Use and application of single chip microcontrollers in the design of instrumentation and control systems. *Prerequisites:* EE 3376 and EE 3340, each with a grade of "C" or better.

4374 Operating Systems Design (3-0)

Design and implementation of single and multiuser operating systems. Topics include OS structure, process management, interprocess communication within and between CPUs, memory management, file systems, and I/O. Contemporary operating systems provide design examples. *Prerequisite:* EE 3372 with a grade of "C" or better.

4375 VLSI Design I (3-0)

Introduction to CMOS VLSI design and computer-aided VLSI design tools. A term project is required that involves high-level design approaches, layout editing, simulation, logic verification, timing analysis, and testing. *Prerequisite:* EE 3329 and EE 3109, each with a grade of "C" or better.

4376 CMOS Digital Circuit Design (3-0)

Analysis and design of digital integrated circuits in CMOS technology. Discussion of different models for MOS transistors and how to use them to analyze circuit performance. Analysis of logic families and styles including complementary static logic, dynamic, and pass-transistor. Topics include sizing for minimum delay, noise and noise margin, power dissipation and cost. A significant circuit design is assigned as a final project such as an SRAM memory or Content Addressable Memory. *Prerequisite:* EE 3329. EE 3329 may be taken concurrently with EE 4376.

4378 Microprocessor Systems II (3-0)

A study of a 16/32 bit microprocessor family and companion devices, and various design aspects of microprocessor systems. *Corequisite:* EE 4178. *Prerequisite:* EE 3376 with a grade of "C" or better.

4379 Computer Architecture (3-0)

Organization of CPUs; memory hierarchies, including cache and virtual memories; parallel processing, including pipelining and multiprocessing. *Prerequisite:* EE 3376 with a grade of "C" or better.

4380 Microwave Communications (3-0)

Primarily a terminal undergraduate course concerning high frequency energy generation and transmission. Topics include waveguides, microwave oscillators, principles of solid-state microwave devices, and propagation of radio waves in the atmosphere. *Prerequisite:* EE 3321 with a grade of "C" or better.

4382 Antenna Engineering (3-0)

Introductory antenna theory and design. Fundamentals and definitions, simple radiating systems, arrays, line sources, wire antennas, broadband antennas, and antenna measurements. *Prerequisite:* EE 3321 with a grade of "C" or better.

4383 Digital Signal Processing (3-0)

An introduction to basic one-dimensional processing methods including: sampling and quantization; discrete-time Fourier and z-domain LTI systems analysis, theory of operation and computational aspects of FIR and IIR digital filters; principles of filter design; the discrete Fourier transform and its application to spectral analysis. *Prerequisite:* EE 3353 with a grade of "C" or better.

4385 Biomedical Instrumentation (3-0)

An introduction to basic concepts in biomedical instrumentation, blood flow measurements, biopotential amplifiers, and electrodes as well as electrical safety of medical equipment. *Prerequisite:* EE 3340 with a grade of "C" or better.

4386 Computational Methods in Electrical Engineering (3-0)

A presentation of the fundamental numerical techniques used in engineering, including solution of systems of linear and nonlinear equations, interpolation and curve-fitting,

solution of ordinary and partial differential equations. *Prerequisites:* EE 3321 with a grade of "C" or better and familiarity with MATLAB.

4388 Digital Communications (3-0)

Techniques of sampling; digital baseband transmission; digital modulation schemes; introduction to coding and fundamental limits on system performance. *Prerequisites:* EE 3353 and EE 3384, each with a grade of "C" or better.

4389 High Resolution Radar (3-0)

Basic theory for design and analysis of radar systems that perform target and surface imaging. Concepts and definitions, the radar range equation, modern radar design, wideband waveforms, and signal processing, synthetic high resolution radar, synthetic aperture concepts. *Prerequisites:* EE 3321 and EE 3353, each with a grade of "C" or better.

4395 Special Topics in Electrical Engineering (3-0)

Selected topics of current interest in Electrical Engineering. May be repeated once for credit when topic varies. *Prerequisites:* Senior standing in engineering and department approval.

See the *Graduate Catalog* for graduate programs and courses.

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Mechanical Engineering

101 Engineering Science Complex
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PROGRAMCHAIRPERSON: Jack Dowdy
PROFESSORS EMERITI: John M. Levosky, John A. Whitacre, Jr.
PROFESSORS: Bronson, Craver, Dowdy, Everett, Wicker
ASSISTANT PROFESSORS: Choudhuri, Chessa, Cooke, Hawkins, Kim, Vargas-Hernandez
LECTURER: Lu

Mechanical Engineering (MECH)

General Prerequisite: Junior standing for all 3000 or 4000-level courses.

3305 Mechanical Engineering Laboratory I (2-3)

Theory and fundamentals of the measurement of mechanical and thermal properties and the application of these measurements to processes. This includes the study of various types of measurement devices from traditional gages to modern computer-based data acquisition systems. The applications of these measurement techniques are practiced through various laboratory problems. *Prerequisites:* MATH 2326 or MATH 3326, BE 2377, and BE 3373, each with a grade of "C" or better.

3354 Fluid Mechanics (3-0)

Fluid properties, fluid statics, fluid flow concepts and basic equations, dimensional analysis and dynamics similitude, viscous effects, fluid resistance, laminar and turbulent boundary layers, flow through pipes. *Prerequisites:* BE 2375, and MATH 2326 or MATH 3326, each with a grade of "C" or better.

3363 Introduction to Computer Aided Manufacturing (2-3)

Geometric modeling theory for computer aided drafting and manufacturing, parametric representation of analytical and synthetic curves and surfaces, fundamentals of modeling solids, cutting tool fundamentals, practice using commercial computer aided modeling software, class project requiring students to design a mechanical component and create the necessary code for input to a numerically controlled machine tool used in its manufacture. *Prerequisites:* BE 2338 and IE 3126, each with a grade of "C" or better.

3365 Dynamic Response (3-0)

Fundamentals of vibration theory and system response. Single and multiple degrees of freedom, damping, and isolation. *Prerequisites:* BE 2338, and MATH 2326 or MATH 3326, each with a grade of "C" or better.

3376 Thermodynamics II (3-0)

Continuation of BE 2375. Application of principles of cycles and reactive systems; energy relationships and equilibrium requirements. *Prerequisites:* Junior standing and BE 2375 with a grade of "C" or better.

4106 Mechanical Engineering Lab II (0-3)

A continuation of the Mechanical Engineering Lab series, with practical measurement problems in mechanical engineering. *Prerequisite:* MECH 3305.

4107 Mechanical Engineering Lab III (0-3)

A continuation of the Mechanical Engineering Lab series, with practical measurement problems in mechanical engineering. *Prerequisite:* MECH 4106.

4111 Controls Laboratory (0-3)

Experiments including spring-mass-damped systems, internal structural damping, forced vibrations, open and closed loop pneumatic systems, servomotor control, stepper motor control and control simulator. *Prerequisite:* MECH 4311. MECH 4311 may be taken concurrently with MECH 4111.

4185 Senior Professional Orientation (0-3)

4195 Senior Professional Orientation (1-0)

Introduction to the Engineering profession with emphasis on job placement, professional ethics, and an engineering field examination.

4311 Automatic Controls (3-0)

A study of classical control theory including transfer functions, stability and time response, error analysis and sensitivity functions, root locus, Nyquist diagrams, and Bode Plots; the analog computer as a simulation tool particularly as pertains to non-linear control systems. Also, an introduction to modern control theory is presented.
Prerequisite: MECH 3365.

4351 Heat Transfer (3-0)

Introduction to heat transfer by conduction, convection, and radiation; steady and transient states; steady periodic states; heat transfer in engineering apparatus.
Prerequisites: MECH 3354.

4355 Gas Dynamics (3-0)

A study of the flow of compressible fluids. One-dimensional steady flow, supersonic flow, normal and oblique shock, flow with heating and cooling, measurement of fluid properties and flow parameters. *Prerequisites:* BE 2375 and MECH 3354, each with a grade of "C" or better.

4364 Mechanical Design I (2-3)

Stress analysis; deflection analysis; strength of mechanical elements; design of screws, fasteners, and joints, clutches, brakes, and couplings, shafting. *Prerequisite:* CE 2334 or BE 2434 with a grade of "C" or better.

4368 Environmental Control Engineering (3-0)

A study of theory and practice leading to the design of heating and air conditioning systems to control building environment for human comfort.

4371 Engineering Problems (0-0-3)

Original investigation of special problems in the student's field; the problems to be selected by the student with approval of the department chairperson. May be repeated for credit. *Prerequisite:* Senior standing and department approval.

4395 Special Topics in Mechanical Engineering (3-0)

Selected topics of current interest in Mechanical Engineering. May be repeated once for credit when topic varies. *Prerequisite:* Senior standing in engineering.

4466 Senior Design (2-6)

Conceptual, preliminary and final design solutions to engineering problems by students in teams. *Prerequisites:* Students must be in their last full semester (semester of graduation) and must have a 2.0 GPA or better overall and in their major.

See the *Graduate Catalog* for graduate programs and courses.



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Metallurgical and Materials Engineering

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PROGRAM CHAIRPERSON: Lawrence E. Murr
PROFESSOR EMERITUS: Lonnie L. Abernethy, Juan M. Herrera
PROFESSORS: Fisher, McClure, Murr, Stafford, Varma
ASSOCIATE PROFESSORS: Arrowood, Golding
ASSISTANT PROFESSOR: Trueba
LECTURER: Swanson

Metallurgical and Materials Engineering (MME)

General Prerequisite: Junior standing for all 3000 or 4000-level courses.

3306 Rate Processes in Materials Systems (3-0)

Introduction to reaction kinetics, fluid flow, and heat transfer applied to materials systems. *Prerequisites:* ENGR 1401, CHEM 1306, and MATH 2326 or MATH 3326, each with a grade of "C" or better, and Junior standing.

3308 Applied Chemical Thermodynamics (3-0)

First, second, and third law of thermodynamics applied to materials systems. Topics include thermochemistry, chemical equilibria, phase equilibria, solutions, activity, and electrochemical potential. *Prerequisites:* BE 2375 with a grade of "C" or better and Junior standing.

3309 Introduction to Electronic Materials Science (3-0)

Basic theory of the electrical, semiconductor, magnetic, optical, and superconductor properties of materials. Application and fabrication of selected materials. *Prerequisite:* PHYS 2421 with a grade of "C" or better.

3314 Composite Materials (3-0)

Introduction to fiber-reinforced materials. Manufacturing technology for strong fibers and whiskers. Mechanical performance, design, and manufacturing of composite products. Adhesion, interfacial shear, and critical fiber length. Anisotropic plane-stress elasticity; multiaxial strength of anisotropic materials. Classical theory of laminates. Delamination and other performance problems. *Prerequisites:* BE 2434 and BE 2303, each with a grade of "C" or better, and Junior standing.

3321 Engineering Alloys (3-0)

The study of the selection and specification of engineering alloys for the use in industrial applications. Topics related to ferrous and non-ferrous metals in the cast, wrought, powder, and particle state will be covered. *Prerequisite:* MME 3407 with a grade of "C" or better or department approval.

3406 Physical Metallurgy (4-0)

The underlying principles of physical metallurgy dealing with the structure-property relationships will be covered. Topics will include crystal structures and defects, solid solutions, deformation and annealing, diffusion, phase equilibria, nucleation and growth, phase diagrams, solidification, and phase analysis. *Prerequisites:* BE 2303 with a grade of "C" or better and junior standing.

3407 Mechanical Behavior of Materials (3-3)

The microstructure-property relationships will be emphasized in this course. The deformation processes for metals, ceramics, polymers, and composite materials will be analyzed in terms of current theories and models. The topics include twinning, martensite, fracture, dislocation theory, plastic deformation, creep, fatigue, strengthening mechanisms, and mechanical testing. *Prerequisite:* BE 2303 and MME 3406 each with a grade of "C" or better.

4171 Engineering Problems (0-0-1)

4271 Engineering Problems (0-0-2)

4371 Engineering Problems (0-0-3)

Original investigation of special problems in the student's field, the problem to be selected by the student with the approval of the head of the department. May be repeated for credit. *Prerequisite:* Senior standing.

4175 Undergraduate Research in Metallurgy (0-0-1)

Supervised individual research. May be repeated for credit as topic varies. Can only be substituted for metallurgy electives or technical electives. *Prerequisites:* Senior standing and a 3.0 grade point average.

4181 Co-op Work Experiences (0-0-1)

4182 Co-op Work Experiences (0-0-1)

4183 Co-op Work Experiences (0-0-1)

Work experience in business, industrial, governmental, professional, service, or other organizations to provide on-the-job training and professional preparation in the student's area of interest. A report covering the work experience must be submitted by the student to the departmental Co-op coordinator or department chair at the end of each work period. Upon completion of his or her third work period and submission of a report summarizing the total work experience, a student can use three hours of Co-op Work Experience in his or her degree plan in place of a technical elective or elective in the major. *Prerequisite:* Selection by the Co-op Coordinator, department chairperson, and employer.

4195 Senior Professional Orientation (1-0)

Introduction to the engineering profession with emphasis on job placement, professional ethics, and an engineering field examination. Required of all students prior to graduation. *Prerequisite:* Senior standing.

4275 Undergraduate Research in Metallurgy (0-0-2)

Supervised individual research. May be repeated for credit as topic varies. Can only be substituted for metallurgy electives or technical electives.

Prerequisites: Senior standing and a 3.0 grade point average.

4303 Metals Processing (3-0)

Analysis of the unit operations involved in metal and mineral production using the principles of material and energy balance, fluid flow, heat transfer, reaction kinetics, and thermodynamics. Survey of processing operations for specific metals such as copper, iron, aluminum, magnesium, titanium, and uranium. *Prerequisites:* BE 2375, MME 3306, and MME 3308, each with grade of "C" or better.

4309 Corrosion (3-0)

Application of electrochemistry and engineering principles to the corrosion, passivity, and protection of metals and alloys. *Prerequisite:* BE 2303 with a grade of "C" or better or department approval.

4316 Failure Analysis (3-0)

The mechanisms of materials failure, failure analysis techniques, and non-destructive testing methods are discussed with emphasis on analysis and interpretation of case studies. *Prerequisites:* BE 2303 and BE 2434, each with a grade of "C" or better, and junior standing.

4330 Solidification Processes (3-0)

Fundamentals of solidification in processes commonly found in manufacturing. The course will cover the principles involved in metal casting, welding, brazing, soldering and plastic injection molding. *Prerequisite:* BE 2303 with a grade of "C" or better.

4375 Undergraduate Research in Metallurgy (0-0-3)

Supervised individual research. May be repeated for credit as topic varies. Can only be substituted for metallurgy electives or technical electives.

Prerequisites: Senior standing and a 3.0 grade point average.

4404 Materials Processing (3-3)

Materials and processes in soldering, brazing, glass and ceramic production, powder metallurgy, surface modification, vapor deposition, fabrication of patterned multi-layers, solidification, etc. Analysis using material and energy balance, fluid flow, heat transfer, kinetics, and thermodynamics. Applications: crystal growth, ceramic/metal joining, glass/metal seals, varistors, ferrites, ceramic capacitors, coatings, CMOS transistors and IC's advanced metal casting, printed wiring boards, and sensors. *Prerequisite:* MME 4303 with a grade of "C" or better.

4413 Structural Characterization (3-3)

The application of modern instrumentation and techniques to structural characterization problems. Both theory and operation will be stressed. X-Ray analysis, electron microscopy (TEM-SEM), and electron probe analysis will be included. *Prerequisite:* MME 3407 with a grade of "C" or better or department approval.

4419 Metallurgical and Materials Engineering Design (3-3)

Introduction to creative industrial problem-solving and the design process in materials engineering. Topics include material and process selection, project planning and resource management, economic decision making in terms of cost evaluation and profitability, and optimization methods. Weekly discussions explore issues of professionalism including engineering ethics, public safety and environmental concerns in design, codes, and standards, etc. Student design teams define and investigate problems in metallurgical processing, materials selection and evaluation, quality control, etc. Design project teams make written and oral progress reports, as well as a final written report and presentation. Laboratory time is devoted to design projects. *Prerequisites:* MME 3407, with a grade of "C" or better, MME 4303, and BE 2326.

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College of Health Sciences

The College offers a Ph.D. in Interdisciplinary Health Sciences designed to respond to the growing national shortage of doctorally-trained professionals in health-related fields and to address significant health research needs related to communities in the United States-Mexico border region.

Health profession programs are offered which lead to the Bachelor of Science in Clinical Laboratory Science (Medical Technology), the Bachelor of Science in Health Promotion, the Bachelor of Science in Kinesiology, the Bachelor of Social Work, the Master of Public Health, the Master of Science in Kinesiology, the Master of Science in Speech-Language Pathology, the Masters in Occupational Therapy, and the Masters in Physical Therapy.

The Bachelor of Science in Clinical Laboratory Science is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education. The Physical Therapy Program is accredited by the Commission of Accreditation for Physical Therapy Education. The Bachelor of Social Work Program is accredited by the Council on Social Work Education. The master's degree in Speech-Language Pathology is accredited by the Council on Academic Accreditation of the American Speech, Language, and Hearing Association and is required in order to qualify for national certification by the American Speech, Language, and Hearing Association and for Texas licensure to practice as a speech-language pathologist.

The College is located approximately one mile from the main UTEP campus, at 1101 North Campbell Street, and is housed in a large, modern building which includes classrooms, laboratories, faculty offices, and lounges for both students and faculty. The Independent Learning Center facilitates independent learning by students through the use of audio-visual programs, programmed units, and laboratory computers. Training and support on instructional software development are available to all interested students and faculty. Equipment reservation and checkout are also available to students and faculty from the College of Health Sciences. The Simulation Laboratory provides an opportunity for students to practice skills before direct contact with patients or clients in clinical settings. The Speech, Hearing, and Language Clinic provides a community service as well as the first clinical practicum experience for Speech-Language Pathology students. The Clinical Laboratory Science program has four new laboratories: microbiology, hematology/immunohematology, chemistry, and research. The Occupational Therapy labs provide students with the opportunity to develop skills in therapeutic media, evaluations, and treatment procedures. In addition, the OT Program has an ADL lab where students are able to practice adapting to cooking and activity of daily living activities such as cooking techniques for persons with a variety of disabilities. Anatomy laboratory space is shared with the Physical Therapy Program. The Physical Therapy labs provide students with opportunities to develop skills in the evaluation of patient problems and the application of treatment modalities. The program has a separate lab for analyzing a person's gait.

The El Paso/Las Cruces/Ciudad Juárez international border community, with a population of more than one and a half million, provides a wide variety of clinical experiences for both students and faculty of the College. Hospitals and other health care agencies throughout the area are utilized for student and faculty clinical practice. In addition, the El Paso City-County Health Department and a number of voluntary agencies provide patient care opportunities for learning. Agencies such as the Pan American Health Organization, the U.S. Immigration and Naturalization Service, and customs and consular offices on both sides of the border provide the student with unique learning experiences in the control and prevention of disease.

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Clinical Laboratory Science Program

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clsc@utep.edu

PROGRAM COORDINATOR: Lorraine Torres
PROFESSOR EMERITA: Gail W. Ackall
ASSOCIATE PROFESSOR: Dominguez
CLINICAL ASISISTANT PROFESSOR: Saleh
INSTRUCTORS: Lewis, Torres

Bachelor of Science in Clinical Laboratory Science

The Clinical Laboratory Science Program (CLS), formerly Medical Technology, is designed to prepare graduates to function as professional members of the health care team. Their services are utilized in hospitals, clinics, and private laboratories, as well as in business and industry. Clinical Laboratory Scientists perform a variety of immunological, biochemical, molecular, and microbiological procedures that aid in the diagnosis, treatment, and prevention of disease. Computerized databases, electronic charting, and sophisticated laboratory techniques such as flow cytometry, DNA, fingerprinting, PCR, and two dimensional electrophoresis help ensure the accuracy and precision of their work. The University of Texas at El Paso's Clinical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (8410 West Bryn Mawr, Suite 670, Chicago, IL, 60631).

Students completing core and pre-professional courses must apply for the professional phase of the program in the spring semester. Applicants must have a minimum CGPA of 2.0 and a 2.5 GPA in math and sciences and pass a background check. University and clinical faculty will interview all applicants. A limited number of clinical sites are available; therefore, students will be selected to enter the professional phase once a year in the Fall semester. Depending on the number of clinical affiliates available in any one year, there is a possibility that the student will be required to attend clinical preceptorships out of the El Paso area at the student's expense.

All lower-division course work must be completed prior to enrolling in the professional Clinical Laboratory Science courses. Before enrolling in the clinical practicum, all students must show evidence of professional liability insurance, health insurance, current CPR certification, a recent physical examination, and current immunizations, including Hepatitis vaccinations. In order to engage in clinical practicums, which are a crucial element in the curriculum, CLS students must undergo and pass a background check.

A grade of "C" or higher must be earned in each CLS class. If a student earns less than a "C," the student must withdraw from the program and reapply the following year.

All students must perform within limits of safe practice. Students who are deemed unsafe by faculty will be dropped and will receive an "F" in the clinical course. The Safe Practice and Procedure Policy for students is posted on the Official Bulletin Board in the College and in the Clinical Laboratory Science Program Office. All work performed by students during the clinical practicum is under the direct supervision of clinical faculty and countersigned by them.

As a professional, the student must exhibit a commitment to the welfare of patients. The faculty in the program reserves the right to refuse the opportunity of a student to perform tests or procedures on patients if the student gives evidence of unsafe and/or ineffective laboratory techniques.

Students graduating from The University of Texas at El Paso are eligible for two national certification examinations: Students passing the American Society of Clinical Pathologists (Chicago, IL) exam may use the initials MT after their name; students passing the National Certification Agency (Washington, DC) exam may use CLS (Clinical Laboratory Scientist) after their name.

Degree Requirements for a Bachelor of Science in Clinical Laboratory Science

| | |
|----------------------------------|---------------------------------|
| University Core Requirements | 45 semester credit hours |
| Pre-Professional Courses | 20 semester credit hours |
| <u>CLSC Professional Program</u> | <u>55 semester credit hours</u> |
| Total | 120 semester credit hours |

University Core Requirements (45 semester credit hours). All courses used to satisfy the core curriculum must be completed with a 'C' or better.

Hours Course Number and Title

3 ENGL 1311 Expository English Composition

or ESOL 1311 Expository English Composition Speakers of ESL

or ENGL/COMM 1611 Written and Oral Communication

3 ENGL 1312 Research and Critical Writing

or ENGL 1313 Writing and Literature

or ESOL 1312 Research and Critical Writing for Speakers of ESL

3 COMM 1301 Public Speaking

or COMM 1302 Business and Professional Communication

Note: COMM/ENGL 1611 may be used to satisfy both the ENGL 1311 and COMM 1301 requirements.

- 4 MATH 1411 Calculus
- 4 CHEM 1305 General Chemistry I with CHEM 1105 Lab
- 4 CHEM 1306 General Chemistry II with CHEM 1106 Lab
- 3 Humanities PHIL 2306 Ethics (required course)
- 3 Visual and Performing Arts Menu (Select one 3 hour course)
 - a. ART 1300 Art Appreciation
 - b. ARTH 1305 Art History of the Western World I
 - c. ARTH 1306 Art History of the Western World II
 - d. MUSL 1321 Introduction to Music History
 - e. MUSL 1324 Music Appreciation
 - f. THEA 1313 Introduction to Theatre
 - g. THEA 1390 Introduction to the Art of the Motion Picture
- 3 HIST 1301 History of U.S. to 1865
- 3 HIST 1302 History of U.S. since 1865
- 3 POLS 2310 Introduction to Politics
- 3 POLS 2311 American Government and Politics
- 3 Social and Behavioral Sciences PSYC 1301 Intro to Psychology (required)
- 3 UNIV 1301 Seminar in Critical Inquiry
- ___ or UNIV 2350 *Interdisciplinary Technology and Society*

45 hours

Pre-Professional Courses (20 semester credit hours)

- 4 BIOL 1305 General Biology with BIOL 1107 Lab
- 4 BIOL 2313 Human Anatomy/Physiology II with BIOL 2113 Lab
- 4 CHEM 3324 Organic Chemistry I with CHEM 3124 Lab
- 2 CLSC 2210 Introduction to the Clinical Laboratory
- 4 MICR 2440 General Microbiology
- 2 CLSC 2211 Medical Diagnostics

20 hours

CLSC Professional Program – Upper Division Courses (55 semester credit hours)

1st Semester (Summer 1, 2)

Summer 1

- 2 CLSC 3252 Body Fluids
- 1 CLSC 3153 Body Fluids Lab

3 hours

Summer 2

- 3 CLSC 3351 Concepts in Immunodiagnostics

3 hours

2nd Semester (Fall)

- 3 CLSC 3354 Clinical Chemistry I
- 1 CLSC 3155 Clinical Chemistry I Lab
- 3 CLSC 3356 Hematology I
- 2 CLSC 3257 Hematology I Lab
- 2 CLSC 3258 Opportunistic and Parasitic Infections
- 1 CLSC 3159 Opportunistic and Parasitic Infections Lab
- 2 CLSC 3260 Serology
- 1 CLSC 3161 Serology Lab

15 hours

3rd Semester (Spring)

- 2 CLSC 3262 Clinical Chemistry II
- 1 CLSC 3164 Clinical Chemistry II Lab
- 2 CLSC 3264 Hematology II
- 3 CLSC 3366 Infectious Diseases
- 2 CLSC 3268 Infectious Diseases Lab
- 3 CLSC 3368 Immunohematology
- 2 CLSC 3269 Immunohematology Lab

15 hours

4th Semester (Fall)

- 3 CLSC 4371 Preceptorship I
- 3 CLSC 4372 Preceptorship II
- 2 CLSC 4273 Clinical Education
- 2 CLSC 4274 Clinical Investigation

10 hours

5th Semester (Spring)

- 2 CLSC 4275 Clinical Management and Supervision
- 3 CLSC 4376 Preceptorship III
- 3 CLSC 4378 Preceptorship IV
- 1 CLSC 4180 Seminar

9 hours

Total semester credit hours = 120

Clinical Laboratory Science (CLSC)

2210 Introduction to the Clinical Laboratory (2-0)

Information on the careers available in the clinical laboratory as well as an overview of each department in clinical pathology will be presented. Tours of hospital, reference labs, and specialized clinical laboratories will be arranged. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of urine and body fluid analysis.

2211 Medical Diagnostics Applications (1-2)

This course will encompass diagnostic applications in the clinical laboratory. Areas covered will include genetics, molecular techniques, laboratory mathematics/statistics, principles and practices of quality control and quality assurance including pre and post-analytical assurance and the application of safety to laboratory practice. *Prerequisites:* CHEM 1306, BIOL 1306, MATH 1411 each with a grade of "C" or better and department approval. A laboratory fee is required.

3153 Body Fluids Lab (0-2)

This laboratory provides the basic laboratory skills necessary for performing urine and body fluids analyses. Several fundamental laboratory methods are performed by the students using common body fluids principles. These laboratory assays provide the basis for most body fluids assays which will be demonstrated in the clinical hospital laboratory rotations. This course includes the principles and practices of quality control and pre-analytical, analytical and post analytical components of microscopy and urinalysis and the application of safety to laboratory practice. *Corequisite:* CLSC 3252.

3155 Clinical Chemistry I Lab (0-2)

This laboratory provides the basic skills necessary for performing clinical chemistry laboratory analyses. Several fundamental laboratory methods are performed by the students using common clinical chemistry principles. These laboratory assays provide the basis for most clinical chemistry analyses which will be demonstrated in the clinical hospital laboratory rotations. *Corequisite:* CLSC 3354. *Prerequisites:* CHEM 1305, CHEM 1105, CHEM 1306, CHEM 1106, and CHEM 3324 each with a grade of "C" or better and department approval.

3159 Opportunistic and Parasitic Infections Lab (0-2)

This laboratory is designed to introduce the fundamental concepts and vocabulary of diagnostic mycology/parasitology. Laboratory exercises will be performed to learn basic methodology in the isolation and identification of fungi and most common parasites found in clinical specimens. *Corequisite:* CLSC 3258. *Prerequisite:* MICR 2440 with a grade of "C" or better.

3161 Serology Lab (0-2)

Serological techniques commonly used in the clinical laboratory will be encompassed with emphasis on direct application to the clinical laboratory. Serological testing and interpretation for disease such as syphilis, mononucleosis, streptococcal infections and others. *Corequisite:* CLSC 3260. *Prerequisite:* CLSC 3351 with a grade of "C" or better.

3164 Clinical Chemistry Lab II (0-2)

A continuation of CLSC 3155 with an emphasis in therapeutic and abused-drug monitoring, pharmacokinetics, toxicology, hormones, and methods. *Corequisite:* CLSC 3262. *Prerequisites:* CLSC 3155 and CLSC 3354 each with a grade of "C" or better and department approval.

3252 Body Fluids (2-0)

This course will cover the chemical, serological, and hematological procedures performed on body fluids. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of urine and body fluid analysis. *Corequisite:* CLSC 3153. *Prerequisite:* Department approval.

3257 Hematology I Lab (0-4)

This course is designed to develop the skills and techniques necessary to recognize and identify normal and abnormal components of the hematopoietic system. This course involves the study of maturation, morphology and function of blood cells and their role in disease processes. Emphasis is placed on both manual and automated laboratory procedures, cell identification, and the relationship of cells with specific diseases such as anemias, leukemias, lymphomas, and reactive processes. This course includes the principles and practices of quality control and pre-analytical, analytical and post analytical components of hematology and the application of safety to laboratory practice. *Corequisite:* CLSC 3356.

3258 Opportunistic and Parasitic Infection (2-0)

This course covers the pathogenesis and the epidemiology of opportunistic microorganisms. The isolation, concentration, and identification of mycological and parasitological specimens is reviewed and discussed. This course includes the principles and practices of quality control and pre-analytical, and post analytical components of clinical microbiology and the application of safety to laboratory practice. *Corequisite:* CLSC 3159. *Prerequisites:* MICR 2440 with a grade of "C" or better and department approval.

3260 Serology (2-0)

This course emphasizes the detection of disease by the use of serological techniques. *Prerequisite:* CLSC 3351 with a grade of "C" or better.

3262 Clinical Chemistry II (2-0)

A continuation of CLSC 3354 with an emphasis of therapeutic drugs of abuse, toxicology, pharmacokinetics, hormones, and methods. *Corequisite:* CLSC 3164. *Prerequisites:* CLSC 3354 and CLSC 3155 each with a grade of "C" or better and department approval.

3264 Hematology II (2-0)

This course emphasizes white cell formation and function. The etiology and treatment of white blood cell disorders is discussed. This course will also encompass hemostasis and laboratory determination of hemostatic disorders including the study of the interaction of blood vessels and platelets with both the coagulation and fibrinolytic systems. *Prerequisites:* CLSC 3356, CLSC 3257.

3267 Clinical Microbiology II Lab (0-2)

This laboratory course develops the basic skills and techniques necessary in the identification of a variety of human pathogens found in the clinical laboratory. *Corequisite:* CLSC 3466. *Prerequisite:* Admission to the upper-division.

3268 Infectious Diseases Lab (0-4)

This laboratory course develops the basic skills and techniques necessary for the isolation, identification, and anti-microbial susceptibility for a variety of pathogens causing diseases. This course includes the principles and practices of quality control and pre-analytical, analytical and post analytical components of clinical microbiology and the application of safety to laboratory practice. *Corequisite:* CLSC 3366. *Prerequisites:* MICR 2440 with a grade of "C" or better and department approval.

3269 Immunohematology Lab (0-2)

This laboratory course is designed to develop and refine skills in performing antigen and antibody identification techniques, compatibility testing, and blood component preparation. Laboratory procedures for processing and selecting blood products, identification of blood group antigens and antibodies, blood storage procedures, quality control, transfusion practices and related complications, and component therapy. This course includes the principles and practices of quality control and pre-analytical, analytical and post analytical components of immunohematology and the application of safety to laboratory practice. *Corequisite:* CLSC 3368.

3351 Concepts in Immunodiagnostics (3-0)

This course covers basic clinical immunology and applications in laboratory medicine. Interactions among immune cells and their secretions are examined. The role of the immune system in tumor growth, transplantation and rejection, and autoimmune diseases is covered. Various methods utilized in the clinical laboratory are demonstrated and discussed. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of clinical immunology. *Prerequisite:* MICR 2440 with a grade of "C" or better.

3354 Clinical Chemistry I (3-0)

This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of clinical chemistry. Basic concepts of laboratory mathematics, colorimetry, spectrophotometry, fluorometry, electrophoreses, chromatography are discussed. Chemical laboratory fundamentals and procedures are presented and related to normal and abnormal human physiology and biochemistry. *Corequisite:* CLSC 3155. *Prerequisites:* CHEM 1305, CHEM 1105, CHEM 1306, CHEM 1106 and CHEM 3324 each with a grade of "C" or better and department approval.

3356 Hematology I (3-0)

This course is a comprehensive study of the process of blood formation. It includes morphological and biochemical relationships of red blood cell formation in healthy vs disease states, as well as the performance and application of current methods in hematologic analysis and technology. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of hematology. *Corequisite:* CLSC 3257. *Prerequisite:* BIOL 2313 with a grade of "C" or better.

3366 Infectious Diseases (3-0)

This course covers the pathogenesis and the epidemiology of pathogenic microorganisms. The diagnosis of infectious diseases by various cultivation, isolation, and identification techniques is discussed. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of clinical microbiology and the application of safety to laboratory practice. *Corequisite:* CLSC 3267. *Prerequisites:* MICR 2440 with a grade of "C" or better and department approval.

3368 Immunohematology (3-0)

The immuno-chemical reactivity of blood antigens and antibodies, blood grouping, compatibility testing, and hemolytic disease of the newborn are presented. HLA testing and component therapy is explored. *Corequisite:* CLSC 3269. *Prerequisites:* CLSC 3351 and CLSC 3260.

3466 Clinical Microbiology II (4-0)

This course covers the pathogenesis and epidemiology of pathogenic organisms found in the hospital laboratory: bacteria, fungi, parasites, and viruses. The diagnosis of infectious diseases by various cultivation isolation and identification techniques are discussed. *Prerequisites:* CLSC 3358 with a grade of "C" or better, department approval, and admission to the Upper-division.

4100 Ethics (1-0)

A study of legal and ethical principles in health care and laboratory medicine.

4180 Seminar (1-0)

The student will be given the opportunity to develop a broader understanding of the clinical laboratory scientist's role as a health professional in a variety of learning experiences, including seminars, lectures, and panel discussions. Principles and application of professionalism will be addressed as well as ongoing professional career development. Included in this course are review and practice examinations. *Prerequisite:* Department approval.

4190 Special Problems (0-0-1)

4290 Special Problems (0-0-2)

4390 Special Problems (0-0-3)

Independent study in clinical laboratory research. Limit six credits. *Prerequisite:* Department approval.

4273 Clinical Education (2-0)

This course will cover basic education techniques and terminology to train/educate users and providers of laboratory services, including the development of continuing education programs, curriculum design, program and student assessments, and test development. *Prerequisite:* Department approval.

4274 Clinical Investigation (2-0)

This course will cover research in medical/clinical settings with a focus on research planning, design, data collection and dissemination, and evaluation of published studies. Students will design and perform research to include proposal writing. Correlation of disease states and changes in laboratory values will also be included in case studies. *Prerequisite:* Department approval.

4275 Clinical Laboratory Management and Supervision (3-0)

Introductory course in the principles and techniques used in the supervision and management of the clinical laboratory in the health professions. The course includes human resource management, management and motivational theories, communication skills, interviewing, performance appraisals, accreditation agencies, federal and state regulations, budget and strategic planning, evaluation instruments, and the implementation of a laboratory quality improvement program. Financial management is covered including profit and loss, cost/benefit, reimbursement requirements, and materials/inventory management. *Prerequisite:* Department approval.

4371 Preceptorship I (0-0-32)

Instruction and practice of techniques and their applications in the clinical laboratory setting (practicum) in hematology, immunohematology, clinical chemistry, clinical microbiology, coagulation, body fluid analysis, and serology. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of laboratory science and the application of safety to laboratory practice. The (-0-0-32) represents the contact hours per week. *Corequisite:* CLSC 4372. *Prerequisites:* CLSC 3368 with a grade of "C" or better and department approval.

4372 Preceptorship II (0-0-32)

Instruction and practice of techniques and their applications in the clinical laboratory setting (practicum) in hematology, immunohematology, clinical chemistry, clinical microbiology, coagulation, body fluid analysis, and serology. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of laboratory science and the application of safety to laboratory practice. The (-0-0-32) represents the contact hours per week. *Corequisite:* CLSC 4371. *Prerequisites:* CLSC 3368 with a grade of "C" or better and department approval.

4376 Preceptorship III (0-0-32)

A continuation of CLSC 4371 and 4372. The student will also be given the opportunity to demonstrate: 1) the ability to apply knowledge, attitudes, and skills to the clinical laboratory practices and procedures; 2) the ability to integrate previous knowledge and skills with more sophisticated instrumentation and advanced methodology; 3) an attitude of cooperation and concern in interpersonal relationships and interdisciplinary communication and team building with patients and health care workers; and 4) an appreciation of the ethical foundations of clinical laboratory science and the application of safety to laboratory practice. The (0-0-32) represents the contact hours per week. *Corequisite:* CLSC 4273. *Prerequisite:* CLSC 4371 and 4372 with a grade of "C" or better and department approval.

4378 Preceptorship IV (0-0-32)

A continuation of CLSC 4371 and CLSC 4372. The student will also be given the opportunity to demonstrate: 1) the ability to apply knowledge, attitudes, and skills to the clinical laboratory practices and procedures; 2) the ability to integrate previous knowledge and skills with more sophisticated instrumentation and advanced methodology; 3) an attitude of cooperation and concern in interpersonal relationships and interdisciplinary communication and team building with patients and health care workers; and 4) an appreciation of the ethical foundations of clinical laboratory sciences. This course includes the principles and practices of quality control and pre-analytical, analytical, and post analytical components of laboratory science and the application of safety to laboratory practice. The (0-0-32) represents the contact hours per week. *Corequisite:* CLSC 4376. *Prerequisites:* CLSC 4371 and CLSC 4372 each with a grade of "C" or better and department approval.

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Health Promotion

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PROFESSOR EMERITUS: John Conway
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ASSOCIATE PROFESSORS: Armijos, Cruz, Duarte-Gardea, Smith, Thompson, Tomaka
ASSISTANT PROFESSOR: Rosenthal
LECTURER: Rascon-Lopez

Bachelor of Science in Health Promotion

The Health Promotion Degree prepares graduates to function as health professionals in health education and health promotion settings such as community health agencies, public health agencies, private business, and public schools. Students complete a common core of courses in Health Promotion and then select a minor in Community Health, Education, or other approved areas. The curriculum is designed to provide a broad general educational base as well as the basic skills, experiences, and professional competencies specific to the practice of health education/health promotion. Other professional responsibilities include acting as a resource person in health education and communicating the health and health education needs, concerns, and resources of a community. Graduates of this 128-semester hour program function in planning, implementing, evaluating, and coordinating health education programs and activities in a variety of settings. The curriculum prepares graduates to successfully complete the National Exam for the Certified Health Education Specialist (CHES) credential. The Health Promotion Program received national approval by SABPAC-

Society of Public Health Education

American Association of Health Education

Baccalaureate Program Approval Committee

Transfer Students

Certified Allied Health professionals should see the Health Promotion Department Chair for a degree plan. Students may receive transfer credit for up to 62 semester hours earned in the student's associate degree program. Professional foundation courses may account for up to 24 semester hours of this total transfer.

Degree Requirements for a Bachelor of Science in Health Promotion with a minor in Community Health or an Approved Minor

| | |
|------------------------------|--------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Pre-requisites | 14 semester credit hours |
| Health Promotion Core | 36 semester credit hours |
| Minor | 18 semester credit hours |
| <u>Electives</u> | <u>8 semester credit hours</u> |
| Total | 120 semester credit hours |

Degree Requirements for a Bachelor of Science in Health Promotion with a minor in Education

| | |
|------------------------------|--------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Pre-requisites | 14 semester credit hours |
| Health Promotion Core | 35 semester credit hours |
| Minor | 18 semester credit hours |
| <u>Electives</u> | <u>9 semester credit hours</u> |
| Total | 120 semester credit hours |

B.S. in Health Promotion Degree Plan (120 semester credit hours)

University Core Requirements (44 semester credit hours). All courses used to satisfy the core curriculum must be completed with a "C" or better.

Hours **Course Number and Title**

3 ENGL 1311 Expository English Composition
or ESOL 1311 Expository English Composition Speakers of ESL

or ENGL/COMM 1611 Written and Oral Communication

3 ENGL 1312 Research and Critical Writing

or ENGL 1313 Writing and Literature

or ESOL 1312 Research and Critical Writing for Speakers of ESL

3 COMM 1301 Public Speaking

or COMM 1302 Business and Professional Communication

Note: COMM/ENGL 1611 may be used to satisfy both the ENGL 1311 and COMM 1301 requirements.

3 MATH 1320 Mathematics for Social Sciences

4 BIOL 1305 General Biology/with BIOL 1107 Lab

4 BIOL 2311 Anatomy/Physiology I/with BIOL 2111 Lab

3 Humanities Menu (Select one 3 hour course)

a. ENGL 2311 English Literature

b. ENGL 2312 English Literature

c. ENGL 2313 Introduction to American Fiction

d. ENGL 2314 Introduction to American Drama

e. ENGL 2318 Introduction to American Poetry

f. HIST 2301 World History to 1500

g. HIST 2302 World History since 1500

h. PHIL 1301 Introduction to Philosophy

i. PHIL 2306 Ethics

3 Visual and Performing Arts Menu (Select 3 hours)

a. ART 1300 Art Appreciation

b. ARTH 1305 Art History of the Western World I

c. ARTH 1306 Art History of the Western World II

d. DANC 1304 Dance Appreciation

e. MUSL 1321 Introduction to Music History

f. MUSL 1324 Music Appreciation

g. THEA 1313 Introduction to Theatre

h. FILM 1390 Introduction to the Art of the Motion Picture

3 HIST 1301 History of U.S. to 1865

3 HIST 1302 History of U.S. since 1865

3 POLS 2310 Introduction to Politics

3 POLS 2311 American Government and Politics

3 Social and Behavioral Sciences (Select 3 hours)

a. ANTH 1301 Introduction to Physical Anthropology and Archeology

b. ANTH 1302 Introduction to Cultural Anthropology

c. ECON 1301 Basic Issues in Economics

d. GEOG 1310 Cultural Geography

e. LING/ANTH/ENGL 2320 Introduction to Linguistics

f. PSYC 1301 Introduction to Psychology

g. SOCI 1301 Introduction to Sociology

3 UNIV 1301 Seminar in Critical Inquiry

or UNIV 2350 Interdisciplinary Technology and Society

44 hours

Program Pre-requisites (14 semester credit hours)

4 BIOL 2313 Human Anatomy/Physiology II with BIOL 2113 Lab

4 CHEM 1407 Introductory Chemistry

3 ENGL 3359 Technical Writing

3 PSYC 1303 Statistical Methods

14 hours

Health Promotion Core (36 semester credit hours) for a Community Health Minor or an Approved Minor

- 3 HSCI 1301 Foundations in Health Science and Health Promotion
- 3 HSCI 2302 Fundamentals of Nutrition
- 3 HSCI 3301 Community Health
- 3 HSCI 3306 Environmental Health
- 3 HSCI 3308 Disease Characteristics, Prevention, and Control
- 3 HSCI 3311 Introduction to Epidemiology
- 3 HSCI 3312 Theories and Methods of Health Behavior Change
- 3 HSCI 3315 Research for the Health Professional
- 3 HSCI 4307 Health Promotion Planning and Implementation
- 9 Select 9 hours from the following HSCI menu:
 - a. HSCI 2303 Wellness Dynamics
 - b. HSCI 2309 First Aid and Safety Practices
 - c. HSCI 3302 Computerized Systems for Health Professionals
 - d. HSCI 3303 Current Health Issues and Problems
 - e. HSCI 3304 Health Perspectives in Aging
 - f. HSCI 3305 Substance Abuse
 - g. HSCI 3307 Death Dying and Bereavement
 - h. HSCI 3309 Health Psychophysiology
 - i. HSCI 3310 Media Development for Health Professions
 - j. HSCI 3316 Community Nutrition
 - k. HSCI 3320 Selected Topics in Health Science
 - l. HSCI 4301 Teaching Health in Secondary School
 - m. HSCI 4303 Family Life and Human Sexuality
 - n. HSCI 4304 Public Health Administration
 - o. HSCI 4306 Health Concerns of Pre-adolescents and Adolescents
 - p. HSCI 4308 Independent Study in Health
 - q. HSCI 4309 Program Evaluation in Health Science
 - r. HSCI 4311 Community Health Education
 - ___ s. HSCI 4312 Grant Writing in Health Professions

36 hours

Minor Field (18 or 21 semester credit hours)

Select one minor from the following:

Community Health Minor

- HSCI 4304 Public Health Administration
- HSCI 4309 Program Evaluation in Health Science
- HSCI 4311 Community Health Education
- HSCI 4312 Grant Writing in the Health Professions
- HSCI 4600 Practicum in Community Health

Or

Approved Minor (18 semester credit hours)

Students may select any university minor field.

Electives (8 semester credit hours)

Select upper division courses in Health Promotion.

Health Promotion Core (35 semester credit hours) for an All-Levels Education Minor

- 3 HSCI 1301 Foundations in Health Science and Health Promotion
- 3 HSCI 2302 Fundamentals of Nutrition
- 3 HSCI 3301 Community Health
- 3 HSCI 3305 Substance Abuse
- 3 HSCI 3306 Environmental Health

- 3 HSCI 3300 Environmental Health
- 3 HSCI 3308 Disease Characteristics, Prevention, and Control
- 3 HSCI 3311 Introduction to Epidemiology
- 3 HSCI 3312 Theories and Methods of Health Behavior Change
- 3 HSCI 4303 Family Life and Human Sexuality
- 3 HSCI 4201 Health Education for Elementary Schools
- 3 HSCI 4301 Teaching Health in Secondary Schools
- 9 Select one course from the following HSCI menu:
 - a. HSCI 2303 Wellness Dynamics
 - b. HSCI 2309 First Aid and Safety Practices
 - c. HSCI 3302 Computerized Systems for Health Professionals
 - d. HSCI 3303 Current Health Issues and Problems
 - e. HSCI 3304 Health Perspectives in Aging
 - g. HSCI 3307 Death Dying and Bereavement
 - h. HSCI 3309 Health Psychophysiology
 - i. HSCI 3310 Media Development for Health Professions
 - j. HSCI 3315 Research for the Health Profession
 - k. HSCI 3316 Community Nutrition
 - l. HSCI 3320 Selected Topics in Health Science
 - m. HSCI 4304 Public Health Administration
 - n. HSCI 4306 Health Concerns of Pre-adolescents and Adolescents
 - o. HSCI 4307 Health Promotion Planning and Implementation
 - p. HSCI 4308 Independent Study in Health
 - q. HSCI 4309 Program Evaluation in Health Science
 - r. HSCI 4311 Community Health Education
 - ___ s. HSCI 4312 Grant Writing in Health Professions

35 hours

Education Minor (18 semester credit hours)

Students selecting all-levels health education minor must confirm general education and professional education requirements with the Coordinator of the Health Promotion Department and the Certification Office in the College of Education.

- EDPC 3300 Developmental Variations
- RED 3342 Reading and Study in the Content Areas
- SCED 3311 Curriculum Planning in the Secondary School
- SCED 3317 Multicultural Education in the Secondary School
- TED 4698 Internship: All levels Health Education

Electives (9 semester credit hours)

Select upper division courses in Health Promotion (junior or senior level courses).

Students who are not majoring in Health promotion may obtain a minor in Health Promotion.

Minor in Health Promotion (18 semester credit hours)

Required Courses:

- 3 HSCI 1301 Foundation of Health Science and Health Promotion
- 3 HSCI 2302 Fundamentals of Nutrition
- 3 HSCI 3301 Community Health
- 9 Select 9 hours from the following menu:
 - a. HSCI 3303 Current Health Issues and Problems
 - b. HSCI 3304 Health Perspectives in Aging **or**
HSCI 3307 Death, Dying, and Bereavement
 - c. HSCI 3305 Substance Abuse

d. HSCI 4303 Family Life and Human Sexuality

___ e. HSCI 4306 Health Concerns of Pre-adolescents and Adolescents

18 hours

Health Sciences (HSCI)

1301 Foundations of Health Science and Health Promotion (3-0)

(🗑 PHED 1304)

Provides information essential to understanding factors that affect human health: health determinants, health indices, health behavior change theories, ethical issues and societal trends. Investigates professional practice settings, health professions, roles and functions of health professionals and professional health organizations. Visits to community health work sites may be required.

2302 Fundamentals of Nutrition (3-0)

(🗑 BIOL 1322)

Includes a study of the nutrients and their sources, their metabolic functions and effects on well-being and health problems; also the components of adequate diets and local, national, and world nutritional problems. *Prerequisite:* BIOL 1305 with a grade of "C" or better.

2303 Wellness Dynamics (3-0)

(🗑 PHED 1305)

Study of the concept of wellness and its components; self-assessment of current health status and application of scientific health and fitness principles for the improvement and maintenance of health throughout the life span. Includes exposure to a variety of lifetime physical activities. Course fee required.

2309 First Aid and Safety Practices (3-0)

(🗑 PHED 1306)

Current practices in first aid, reaction to life threatening situations, treatment of typical minor injuries in recreational activities, safety practices, and risk management to reduce accidents. Equipment Maintenance fee required.

3120 Selected Topics in Health Science (1-0)

3220 Selected Topics in Health Science (2-0)

3320 Selected Topics in Health Science (3-0)

Topics not included in or going beyond the regular offerings. *Prerequisite:* Department approval.

3301 Community Health (3-0)

Study of international, national, state, and local health problems and the governmental and voluntary health agencies which deal with these problems. Incidence and prevalence of specific community health problems and diseases; solutions suggested through coordinated efforts of school, health, and welfare organizations. *Prerequisite:* HSCI 1301.

3302 Computerized Systems for Health Professionals (2-2)

Focuses upon skills and knowledge required of a professional in health sciences. Application of computers to gather, organize, and distribute health resources; apply computer assisted communication techniques and computer applications in data collection, analysis, and reporting in the health sciences.

3303 Current Health Issues and Problems (3-0)

Current scientific findings regarding contemporary health problems and current trends associated with the promotion of health. May include the study of factors related to mental-emotional health; stress; stress management; suicide; development of self-esteem; consumer health and health services; and international health and border health concerns. *Prerequisite:* HSCI 1301.

3304 Health Perspectives in Aging (3-0)

Examination of the lifelong aging process (physical and emotional) and health factors affecting the elderly. Course content includes theories of aging, health maintenance, and alternatives to institutionalization.

3305 Substance Abuse (3-0)

Pharmacological, psychological, and sociological effects of drug abuse on the individual and society. Emphasizes individuals' responsibility in regard to peer pressure, self-esteem, decision-making, and communication. Field trips may be required.

3306 Environmental Health (3-0)

Examination of the environment and its relationships to disease causation. Discussions on the physical, chemical, biological, and behavioral-sociological factors of man's environment. Emphasizes the principles and concepts of environmental health and environmental health hazards. Field trips may be required.

3307 Death, Dying, and Bereavement (3-0)

Concepts, attitudes, ethics and lifestyle management related to dying, death, grief, and bereavement. The course provides in-depth knowledge of the medical, financial, physical, legal, and social implications of death and dying as related to health promotion and wellness.

3308 Disease Characteristics, Prevention, and Control (3-0)

Study of the nature, prevention, treatment, and control of common communicable and non-communicable human diseases; examination of cultural, social, behavioral, biological, and environmental factors involved in promoting health and preventing disease. *Prerequisite:* BIOL 2313, MATH 1320, CHEM 1407, and HSCI 3301.

3309 Health Psychophysiology (3-0)

Examines relations between psychological processes and physiological outcomes as they relate to physical health. Emphasizes understanding how psychological factors relate to people staying healthy, becoming ill, and how people respond once they do become ill. Class topics include the biological bases of stress, theories of stress and emotion, good and bad stress, and coping with stress and disease.

3311 Introduction to Epidemiology (3-0)

Provides the health care professional with an understanding of the disease process from an epidemiologic and community health point of view. Basic concepts of the science of epidemiology presented with emphasis placed upon preventive health behavior. *Prerequisites:* HSCI 3308, MATH 1320 and PSYC 1303.

3312 Theories and Methods of Health Behavior Change (3-0)

An introduction to the issues and techniques of health behavior change. Examines various approaches of motivating and maintaining positive behavior change. Includes discussion of the major behavioral theories. *Prerequisites:* HSCI 1301 and HSCI 3301.

3315 Research for the Health Professional (3-0)

Introduction to basic research concepts and processes which enable health professionals to use and participate in health science research. Includes associated legal, ethical, and moral issues. *Prerequisites:* HSCI 3301 and PSYC 1303.

3316 Community Nutrition (3-0)

Introduction to the role of nutrition in promoting, maintaining, and improving the health in the community. Includes nutritional studies of groups and community resources and programs providing nutritional services. Analysis of nutrition problems, and practices in the community with emphasis on underserved populations. Development of nutrition policy and legislation and ethical and legal issues in nutrition practice. *Prerequisite:* HSCI 2302 with a grade of "C" or better.

4201 Health Education for Elementary School Teachers (1-2)

This course focuses on the identification and study of current health concerns, principles and practice of teaching health; selection and implementation of effective instructional strategies; investigation of the coordinated school health program; curriculum development; and evaluation of instruction and the school health program. *Prerequisites:* Junior status.

4301 Teaching Health in Secondary School (3-0)

Overview of both traditional and innovative teaching methods, materials, and resources in middle and secondary schools. Responsibilities of schools for curriculum development and instruction; adolescent health problems and their relationship to instruction. Practice of effective teaching techniques. Field experience required. *Prerequisites:* 9 hours from the Health Science core and Junior status.

4303 Family Life and Human Sexuality (3-0)

The study of sexuality as an aspect of health; examination of society's beliefs and attitudes; the responsibility for sexual behavior as it relates to family values.

4304 Public Health Administration (3-0)

Study of organizational skills and basic principles, theories, and practices of administering health programs in voluntary and governmental agencies. Leadership, motivation, small group process, problem solving, conflict resolution, interorganizational relationship, and organizational change. May include field trips. *Prerequisites:* HSCI 1301 and HSCI 3301.

4306 Health Concerns of Pre-adolescents and Adolescents (3-0)

Addresses major health problems, health risks, transitions, and lifestyle choices of pre-adolescents and adolescents. *Prerequisite:* Junior-level status.

4307 Health Promotion Planning and Implementation (3-0)

Explores major components of health promotion program planning and implementation. Emphasizes the utilization of various planning models and intervention strategies necessary to plan and implement health education and health promotion programs. *Prerequisites:* HSCI 3301 and HSCI 3315 each with a grade of "C" or better.

4308 Independent Study in Health (0-0-3)

Independent study of a designated health problem or health education issue or trend. *Prerequisites:* 12 semester hours from Health Science core and written consent of Health Science Program Coordinator. *Prerequisite:* Department approval.

4309 Program Evaluation in Health Science (3-0)

An introduction to the issues, problems, and techniques involved in evaluation of health promotion and health education programs. *Prerequisites:* HSCI 3315 and HSCI 4307 each with a grade of "C" or better

each with a grade of "C" or better.

4311 Community Health Education (3-0)

Emphasizes contemporary theories, methods, materials used in Wellness intervention, health promotion, and health education programs in the community. Field experience required. *Prerequisites:* Health Science GPA of 2.7 or better, HSCI 3301, plus 12 hours from the Health Science core. Course fee required.

4312 Grant Writing in the Health Professions (3-0)

The course addresses all aspects of grant proposal preparation and submission, including locating funding sources, formulating a budget, and developing and writing the proposal. *Prerequisite:* HSCI 3315 with a grade of "C" or better.

4600 Practicum in Community Health (0-0-21)

Individually arranged practicum planned with official and voluntary community health agencies providing a minimum of 320 hours experience in health education and administration plus 15 hours of seminars. Supervised by University faculty and personnel from the official and/or voluntary health agencies. *Prerequisites:* HSCI 2302, HSCI 3312, HSCI 4307, HSCI 4309, and HSCI 4311, plus 12 additional hours of Health Science courses, Health Science GPA of 2.7 or better, and program coordinator's approval.

See the *Graduate Catalog* for graduate programs and courses.

 Indicates Texas Common Course Number (TCCN)

Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

Kinesiology

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CHAIR: Harry Meeuwsen
PROFESSOR: Meeuwsen
ASSOCIATE PROFESSOR EMERITUS: Garland O'Quinn
ASSOCIATE PROFESSORS: King, Smith
ASSISTANT PROFESSORS: Dorgo, Vella
CLINICAL ASSISTANT PROFESSOR: Pederson
LECTURERS: Gamboa, Torres

Bachelor of Science in Kinesiology

The Bachelor of Science in Kinesiology requires (1) a general university core, (2) program prerequisites (3) Kinesiology core, (4) program concentration, (5) minor field of study and (6) possibly electives. Students wishing to obtain a teaching certificate must select the Physical Education Concentration and the Education Minor. Students interested in a career in the fitness industry or in graduate study in exercise science, physical therapy, or similar fields should select the Exercise Science Concentration.

Students who already have a bachelor's degree in some other field and who wish to pursue a teaching certificate to teach physical education should refer to the College of Education section of this catalog. Students desiring to pursue a Master of Science in Kinesiology should consult the *Graduate Catalog*.

Degree Requirements for a Bachelor of Science in Kinesiology with a Concentration in Physical Education and a Minor in All-levels Physical Education

| | |
|----------------------------------|--------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Prerequisites | 7 semester credit hours |
| Kinesiology Core | 24 semester credit hours |
| Physical Education Concentration | 23 semester credit hours |
| Education Minor | 18 semester credit hours |
| <u>Electives</u> | <u>4 semester credit hours</u> |
| Total | 120 semester credit hours |

Degree Requirements for a Bachelor of Science in Kinesiology with a Concentration in Exercise Science and an Approved Minor

| | |
|----------------------------------|--------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Prerequisites | 15 semester credit hours |
| Kinesiology Core | 24 semester credit hours |
| Exercise Science Concentration | 15 semester credit hours |
| Minor | 18 semester credit hours |
| <u>Electives- Upper Division</u> | <u>4 semester credit hours</u> |
| Total | 120 semester credit hours |

Students who are interested in pursuing a Master's in Physical Therapy are required to complete the following degree plan which is designed to fulfill the prerequisites for admission to the graduate program in Physical Therapy at UTEP. Prerequisites for programs at other Universities may differ. For specific prerequisites to admission into the Physical Therapy program at UTEP, see the UTEP Graduate Catalog.

Degree Requirements for a Bachelor of Science in Kinesiology with a Concentration in Exercise Science (Pre-PT)

| | |
|--------------------------------|---------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Prerequisites | 20 semester credit hours |
| Kinesiology Core | 21 semester credit hours |
| Exercise Science Concentration | 15 semester credit hours |
| <u>Biology Minor</u> | <u>20 semester credit hours</u> |
| Total | 120 semester credit hours |

Students who are interested in pursuing a Master's in Occupational therapy are required to complete the following degree plan which is designed to fulfill the prerequisites for admission to the graduate program in Occupational Therapy at UTEP. Prerequisites for programs at other Universities may differ. For specific prerequisites to admission into the Occupational Therapy program at UTEP, see the UTEP Graduate Catalog.

Degree Requirements for a Bachelor of Science in Kinesiology with a Concentration in Exercise Science (Pre-OT) and a Minor in Psychology

| | |
|--------------------------------|-------------------------------|
| University Core Requirements | 44 semester credit hours |
| Program Prerequisites | 21 semester credit hours |
| Kinesiology Core | 21 semester credit hours |
| Exercise Science Concentration | 15 semester credit hours |
| Psychology Minor | 18 semester credit hours |
| <u>Elective-Upper Division</u> | <u>1 semester credit hour</u> |
| Total | 120 semester credit hours |

B.S in Kinesiology Degree Plan-Physical Education Concentration

(120 semester credit hours)

University Core Requirements (44 semester credit hours). See University Core Curriculum section of this catalog. All courses used to satisfy the core curriculum must be completed with a 'C' or better. In order to complete this degree plan in the most efficient manner, students should use the following specific options for the university core.

3 MATH 1320 Mathematics for Social Sciences

or MATH 1508 Precalculus

4 BIOL 1305 General Biology with BIOL 1107 Lab

4 BIOL 2311 Human Anatomy/Physiology I with BIOL 2111 Lab

Program Prerequisites (7 semester credit hours)

4 BIOL 2313 Human Anatomy/Physiology II with BIOL 2113 Lab

3 HSCI 2302 Fundamentals of Nutrition

7 hours

Kinesiology grade requirement. All KIN courses used to satisfy degree requirements must be completed with a 'C' or better.

Kinesiology Core (24 semester credit hours)

3 KIN 1303 Foundations of Kinesiology

3 KIN 2332 Motor Learning and Control

3 KIN 3313 Statistics and Measurement in Kinesiology

3 KIN 3331 Anatomical Kinesiology

3 KIN 4312 Exercise Physiology

3 KIN 4313 Biomechanics

3 KIN 4314 Special Populations

3 KIN 4330 Fitness Programs and Appraisal

24 hours

Concentration-Physical Education (23 semester credit hours)

3 KIN 2315 Introduction to Athletic Training **or**

HSCI 2309 First Aid and Safety

2 KIN 3217 Fundamental Movement Skills

2 KIN 3219 Individual Games and Sports

2 KIN 3221 Team Games and Sports

2 KIN 3223 Lifetime Physical Activities

3 KIN 3315 Principles of Teaching PE

3 KIN 4319 Teaching Elementary Physical Education

3 KIN 4320 Adventure Curricula in Physical Education

3 KIN 4321 Teaching Secondary Physical Education

23 hours

Education Minor (18 semester credit hours)

Students selecting All-Levels Physical Education Certification must confirm general education and professional education requirements with the KIN Advisor and the Certification Office in the College of Education.

| | | |
|------|------|---|
| EDPC | 3300 | Developmental Variations |
| SCED | 3311 | Curriculum Planning in the Secondary School |
| RED | 3342 | Reading and Study in the Content Areas |
| SCED | 3317 | Multicultural Education in the Secondary School |
| TED | 4698 | Internship II in All Levels Physical Education |

Electives (4 semester credit hours)

B.S. in Kinesiology Degree Plan-Exercise Science Concentration

(120 semester credit hours)

University Core Requirements (44 semester credit hours).

All courses used to satisfy the core curriculum must be completed with a "C" or better. The core requirements for this concentration are the same as for the physical education concentration.

Program Prerequisites (15 semester credit hours)

| | | | |
|---|------|------|--|
| 3 | HSCI | 2302 | Fundamentals of Nutrition |
| 4 | BIOL | 2313 | Human Anatomy/Physiology II with BIOL 2113 Lab |
| 4 | CHEM | 1407 | Introductory Chemistry or |
| 4 | PHYS | 1403 | General Physics I |

Kinesiology Core (24 semester credit hours)

| | | | |
|---|-----|------|---|
| 3 | KIN | 1303 | Foundations of Kinesiology |
| 3 | KIN | 2332 | Motor Learning and Control |
| 3 | KIN | 3313 | Statistics and Measurement in Kinesiology |
| 3 | KIN | 3331 | Anatomical Kinesiology |
| 3 | KIN | 4312 | Exercise Physiology |
| 3 | KIN | 4313 | Biomechanics |
| 3 | KIN | 4314 | Special Populations |
| 3 | KIN | 4330 | Fitness Programs and Appraisal |

24 hours

Exercise Science Concentration (15 semester credit hours)

| | | | |
|---|-----|------|---|
| 3 | KIN | 4323 | Current Issues in Exercise Science |
| 3 | KIN | 4334 | Coronary Intervention Programs |
| 3 | KIN | 4340 | Scientific Principles of Strength Training and Conditioning |

6 Select 6 hours from the following menu or any approved upper division Kinesiology elective. (*Note: Students interested in NSCA Personal Trainer should select KIN 4301 and students interested in Strength and Conditioning Specialist Certification should select KIN 4351*)

- a. KIN 4301 Personal Training
- b. KIN 2315 Introduction to Athletic Training or
HSCI 2309 First Aid and Safety
- c. KIN 4350 Internship
- d. KIN 4351 Internship in Strength Training and Conditioning

15 hours

Approved Minor

Students may select an approved minor in another field with consultation from a Kinesiology faculty advisor.

Note: The Business Minor is recommended for students interested in employment in the private fitness and exercise industry.

Electives (4 semester credit hours)

B.S in Kinesiology Degree Plan for students who are interested in pursuing a Master's in Physical Therapy(120 semester credit hours)

University Core Requirements (44 semester credit hours). See University Core Curriculum section of this catalog. All courses used to satisfy the core curriculum must be completed with a 'C' or better. In order to complete this degree plan in the most efficient manner, students should use the following specific options for the university core.

3 MATH 1320 Mathematics for Social Sciences

or MATH 1508 Precalculus

4 CHEM 1407 Introductory Chemistry

4 CHEM 1408 Introductory Chemistry

3 PSYC 1301 Introduction to Psychology

Program Prerequisites (20 semester credit hours)

4 PHYS 1403 General Physics I

4 PHYS 1404 General Physics II

3 PSYC 1303 Statistical Methods

3 PSYC 2310 Life Cycle Development

3 HSCI 2302 Fundamentals of Nutrition

3 ENGL 3359 Technical Writing

20 hours

Kinesiology grade requirement. All KIN courses used to satisfy degree requirements must be completed with a 'C' or better.

Kinesiology Core (21 semester credit hours)

3 KIN 1303 Foundations of Kinesiology

3 KIN 2332 Motor Learning and Control

3 KIN 3331 Anatomical Kinesiology

3 KIN 4312 Exercise Physiology

3 KIN 4313 Biomechanics

3 KIN 4314 Special Populations

3 KIN 4330 Fitness Programs and Appraisal

21 hours

Exercise Science Concentration (15 semester credit hours) is the same for all exercise science degree plans.

Biology* (20 semester credit hours)

4 BIOL 1305 General Biology with BIOL 1107 Lab

4 BIOL 1306 Organismal Biology with BIOL 1108 Lab

4 BIOL 2311 Human Anatomy/Physiology I with BIOL 2113 Lab

4 BIOL 2313 Human Anatomy/Physiology II with BIOL 2113 Lab

3 BIOL 4388 Mammalian Physiology

1 ZOOL 4181 Vertebrate Physiology Methods

20 hours

* An optional 3-hour upper division biology elective required to obtain an official biology minor.

B.S. in Kinesiology Degree Plan for students who are interested in pursuing a Masters in Occupational Therapy (120 semester credit hours)

University Core Requirements (44 semester credit hours). See University Core Curriculum section of this catalog. All courses used to satisfy the core curriculum must be completed with a 'C' or better. In order to complete this degree plan in the most efficient manner, students should use the following specific options for the university core.

3 MATH 1320 Mathematics for Social Sciences I

or MATH 1508 Precalculus

4 BIOL 1305 General Biology with BIOL 1107 Lab

4 BIOL 2311 Human Anatomy/Physiology I with BIOL 2111 Lab

3 SOCI 1301 Introduction to Sociology

Program Prerequisites (21 semester credit hours)

- 4 BIOL 2313 Human Anatomy/Physiology I with BIOL 2113 Lab
- 3 HSCI 2302 Fundamentals of Nutrition
- 3 PSYC 2310 Life Cycle Development
- 3 PSYC 2312 Introduction to Abnormal Psychology
- 3 ENGL 3359 Technical Writing
- 1 CLSC 3150 Medical Terminology
- 4_ CHEM 1407 Introductory Chemistry or PHYS 1403 General Physics I

21 hours

Elective (1 semester credit hour)

Kinesiology grade requirement. All KIN courses used to satisfy degree requirements must be completed with a "C" or better.

Kinesiology Core (21 semester credit hours)

- 3 KIN 1303 Foundations of Kinesiology
- 3 KIN 2332 Motor Learning and Control
- 3 KIN 3331 Anatomical Kinesiology
- 3 KIN 4312 Exercise Physiology
- 3 KIN 4313 Biomechanics
- 3 KIN 4314 Special Populations
- 3_ KIN 4330 Fitness Programs and Appraisal

21 hours

Exercise Science Concentration (15 semester credit hours) is the same for all exercise science degree plans.

Psychology Minor (18 semester credit hours)

- 3 PSYC 1301 Introduction to Psychology
- 3 PSYC 1303 Statistical Methods
- 2 PSYC 3201 General Experimental Psychology
- 1 PSYC 3101 Lab for General Experimental Psychology
- 9_ Upper division psychology-must choose at least 1 from 3320, 3330, 3348 4324

18 hours

Kinesiology (KIN)

1303 Foundations of Kinesiology (3-0)

( PHED 1301)

Historical and philosophical aspects of kinesiology and sports. Orientation to programs in public and private settings. Minimum grade of "C" is required to pass *Prerequisite*: Department approval.

2315 Introduction to Athletic Training (3-0)

Introduction to the field of athletic training with emphasis on injury prevention, basic evaluation, and emergency care for common injuries among athletes and the physically active. Includes taping and bracing experience. *Prerequisites*: KIN 1303 with a grade of "C" or better and department approval. KIN 1303 may be taken concurrently with KIN 2315. Course fee required.

2332 Motor Learning and Control (3-0)

A study of principles that govern the control and the learning of movements. Topics include control of coordinated movement, stages of learning, augmented

feedback, practice conditions, and individual differences. PSYC 2310 recommended. Minimum grade of "C" is required to pass *Prerequisites*: KIN 1303 with a grade of "C" or better and department approval. KIN 1303 may be taken concurrently with KIN 2332.

2342 Spanish Dance (2-2)

Provides information on the origins, traditions, music, and choreographic styles relating to the dances of Spain and Spanish America.

3201 Racquet Sports - Analysis and Development (1-2)

Analysis and evaluation of stroke techniques and strategies. Topics include equipment, facilities, drills, rules, and risk management. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. Fee required.

3202 Developmental Gymnastics - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Restricted to majors: IDST and KIN. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3202. Fee required.

3203 Track and Field - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3203. Fee required.

3204 Dance - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3204. Fee required.

3205 Basketball - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3205. Fee required.

3206 Football - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3206. Course fee required.

3207 Aquatics - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3207. Course fee required.

3209 Soccer - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3209. Course fee required.

3210 Baseball and Softball - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3210. Course fee required.

3211 Volleyball - Analysis and Development (1-2)

Analysis, review, and development of skills in theory and practice. Minimum grade of "C" is required to pass. Restricted to majors: IDST and KIN. *Prerequisites:* KIN 2332 and department approval. KIN 2332 may be taken concurrently with KIN 3211. Course fee required.

3217 Fundamental Movement Skills (1-2)

Fundamental Movement Skills provides teacher candidates with the opportunity to develop knowledge of and competency in fundamental movement skills, development gymnastics, and dance. Teacher candidates will prepare, implement, and analyze learning experiences based on TEKS designed to develop competency in locomotor, nonlocomotor, and manipulative skills as well as gymnastics and dance. Competency in teaching skills/tasks and individual games and sports will be assessed. 20 hours of field experience/observation required. *Prerequisites:* KIN 2332 and KIN 3315 each with a grade of "C" or better and department approval. Course fee required.

3219 Individual Games and Sports (1-2)

Individual Games and Sports will provide teacher candidates with exposure to and preparation for teaching multiple individual games and sports. Teacher candidates will prepare, implement, and analyze learning experiences in a variety of traditional and modern individual activities. Competency in teaching skills/tasks and individual games and sports will be assessed. 20 hours of field experience/observation required. *Prerequisites:* KIN 2332 and KIN 3315 each with a grade of "C" or better and department approval. Course fee required.

3221 Team Games and Sports (1-2)

Team Games and Sports will provide teacher candidates with exposure to and preparation in teaching multiple team games and sports. Teacher candidates will prepare, implement, and analyze learning experiences in a variety of traditional and modern team games and sport activities. Competency in teaching skills/tasks and individual games and sports will be assessed. 20 hours of field experience/observation required. *Prerequisites:* KIN 2332 and KIN 3315 each with a grade of "C" or better and department approval. Course fee required.

3223 Lifetime Physical Activities (1-2)

Lifetime Physical Activities prepares teacher candidates to integrate lifetime physical activities into physical education curriculum to develop physically active lifestyles in students. Teacher candidates will develop, implement and analyze learning experiences focused on the development of health-related physical fitness and active lifestyles. Competency in teaching skills/tasks (TEExES) and lifetime physical activities as presented in TEKS will be assessed. 20 hours of field experience/observation required.

Prerequisites: KIN 2332 and KIN 3315 each with a grade of "C" or better and department approval. Course fee required.

3313 Statistics and Measurement in Kinesiology (3-0)

Measurement and evaluation of physical attributes and performance. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 with a grade of "C" or better, MATH 1320 or MATH 1508, and department approval.

3315 Principles of Teaching Physical Education (2-1)

Principles of Teaching Physical Education is designed to introduce teacher candidates to pedagogical skills identified in the Texas Examination of Educator Standards (TExES) necessary for directing the teaching/learning process. Teacher candidates will understand the knowledge, skills and attitudes for K-12 Physical Education presented in Texas Essential Knowledge and Skills (TEKS); practice teacher tasks involved in the planning and implementation of learning experiences; learn strategies for organizing, managing, and monitoring the learning environment; and experience the process of physical education curriculum development. 30 hours of field experience/observation required. *Prerequisites:* KIN 2332 with a grade of "C" or better and department approval. Course fee required.

3318 Growth, Maturation, Health, Motor Behavior, and Movement Experiences in Early Childhood (3-0)

Physical growth, maturation, and motor development occurring in early childhood; principles of and activities for motor skill development; components of health related fitness for life; health needs of young children. *Prerequisite:* Department approval. Course fee required.

3331 Anatomical Kinesiology (3-0)

A study of the science of human movement with special consideration given to anatomical and neuromuscular contributions. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 with a grade of "C" or better, BIOL 2311 and department approval.

4201 Physical Education for Elementary Schools (2-2)

Principles and practice of teaching physical education in elementary school: Personal skill development, promoting a physically active lifestyle, managing the classroom, motivating diverse student populations, learning and teaching styles, performance assessment, and legal issues. Practical lab experiences included. *Prerequisite:* Junior status. Course fee required. This course is not available for Kinesiology majors.

4222 Outdoor Education and Survival Skills (2-0)

Development of proficiency in basic outdoor education and survival skills, with emphasis on safety and appreciation of the natural environment. Arranged field trips are required. Minimum grade of "C" is required to pass. Course fee required.

4301 Personal Training (2-2)

Experience in the application of exercise technique and prescription in the development of fitness and strength training programs for a variety of populations. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303, KIN 3331 each with a grade of "C" or better, Senior standing and department approval.

4309 Sports Activity Injuries, Training, and Emergency Care (3-0)

Recognition and prevention of injuries in sports activities as well as emergency care procedures/provisions for common physical education and playground injuries. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 with a grade of "C" or better, Junior or Senior standing and department approval. Athletic Training Fee required.

4310 Selected Topics in Kinesiology (0-0-3)

Study of selected topics not included in the regular curricular offerings in kinesiology. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 with a grade of "C" or better and department approval.

4312 Exercise Physiology (2-2)

Study of the physiological adaptations the body makes to exercise stress, the principles of strength development, and muscular and cardiorespiratory endurance development. Minimum grade of "C" is required to pass. *Prerequisites:* BIOL 2311, BIOL 2111, BIOL 2313, BIOL 2113, and department approval. Fee required.

4313 Biomechanics (2-2)

The study of biomechanics of human movement with concepts for coaching, rehabilitation, injury prevention, and the enhancement of human performance. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303, KIN 3331 and MATH 1320 or MATH 1508 (or equivalent) each with a grade of "C" or better, and department approval. Course fees required.

4314 Special Populations: Characteristics and Motor Behavior (3-0)

Development of an understanding of persons with disabilities and programs of sports and physical activity adapted to their needs. The nature of physical, mental, emotional, and social disabilities will be discussed with application of corrective, developmental, and remedial physical activities in various social settings. Practical laboratory experiences will be provided. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 and KIN 2332 each with a grade of "C" or better and department approval.

4315 Advanced Athletic Training (3-0)

Provides opportunities for the development of competence in the uses of common techniques for both the prevention and rehabilitation of athletic injuries. Students will be provided opportunities to demonstrate an understanding of bone and soft tissue injury management and of the implications of gender differences for conditioning and injury management. *Prerequisites:* KIN 4309, BIOL 2311, BIOL 2111, BIOL 2313, and BIOL 2113. Athletic training fee required.

4319 Teaching Elementary School Physical Education (3-0)

Curriculum planning, materials selection and evaluation, Texas Essential Knowledge and Skills (TEKS), class management, and teaching-learning process for elementary

physical education teachers. Field experience required. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 and KIN 2332 each with a grade of "C" or better and department approval. Course fee required.

4320 Adventure Curricula in Physical Education (2-2)

Enhance the understanding of the principles of experiential education through hands-on experiences with challenge course and adventure activities. Focused on integrating these activities in secondary school curricula. Course is designed to help the beginning teachers implement individual leadership and teamwork challenges for their students. Additional training is required for low challenge courses facilitator certification. Credit: Three hours. Minimum grade of "C" is required to pass. *Corequisite:* KIN 4321. *Prerequisites:* KIN 1303 and KIN 2332 each with a grade of "C" or better and department approval.

4321 Teaching Secondary School Physical Education (3-0)

Curriculum planning, materials selection and evaluation, Texas Essential Knowledge and Skills (TEKS), class management, and teaching-learning process for secondary physical education teachers. Field experience required. Minimum grade of "C" is required to pass. *Corequisite:* KIN 4320. *Prerequisites:* KIN 2332 and department approval. Course fee required.

4323 Current Issues in Exercise Science (3-0)

Analysis of current issues related to the exercise science. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303, KIN 4312 and KIN 4313 each with a grade of "C" or better and department approval. Course fee required.

4330 Fitness Programs and Appraisal (2-3)

Programs to enhance physical fitness, methods of fitness assessment, and individualized exercise prescription methods are covered. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 and KIN 4312 each with a grade of "C" or better and department approval. Course fee required.

4334 Coronary Intervention Programs (2-3)

The anatomy and physiology of the cardiovascular system, cardiovascular disease, electrophysiology, exercise tolerance testing, ECG interpretation, risk factor analysis, prevention programs, and cardiac rehabilitation programs will be discussed. Minimum grade of "C" is required to pass. *Prerequisites:* 4312 with a grade of "C" or better or instructor approval. Course fee required.

4340 Scientific Principles of Strength Training and Conditioning (3-0)

Analysis of the conceptual, theoretical, and technical considerations of assessing, designing, and implementing strength training and conditioning programs. Includes analysis and application of contemporary periodization concepts. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 and KIN 4312 with a grade of "C" or better and department approval.

4350 Internship (0-15)

Supervised, participatory experience in a commercial sport or exercise-related setting. Minimum of 15 hours per week for a total of 225 hours. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 with a grade of "C" or better, Senior standing and department approval.

4351 Internship in Strength Training and Conditioning (0-0-15)

Supervised, participatory experience in strength training and conditioning. Minimum of 15 hours per week with a National Strength and Conditioning Association Certified Strength and Conditioning Specialist for a total of 225 hours. Minimum grade of "C" is required to pass. *Prerequisites:* KIN 1303 and KIN 4340 each with a grade of "C" or better, Senior standing and department approval.

4390 Independent Study (0-0-3)

Individual directed study in an area of special interest. *Prerequisites:* Senior standing and department approval.

Physical Education Activity Courses (PE)

It should be noted that physical education activity courses often involve strenuous physical activity and/or participation in activities with inherent risk of personal injury. Students are advised to review their physical condition, and consult with a physician if appropriate, before enrolling in these courses. The University is not responsible for illness or injury resulting from participation in these courses.

The following activity courses, all of which are co-educational, are offered by the Professional and Continuing Education (PACE) department located in Miner's Hall, Suite 108. Website: pace.utep.edu. These courses may be repeated for credit and are open to all students. Equipment and lockers are provided. There is a fee charged for participation in these courses that is used for the provision and maintenance of equipment.

1101 Activity Course (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Various topics TBA. Physical Education Course fee required.

1104 Aerobic Dance (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1105 Slide Aerobics (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1106 Water Aerobics (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1116 Basketball (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1120 Walking (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1122 Conditioning (0-3)

(* DANC 1115)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1125 Cheerleading (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1128 Beginning Fencing (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1129 Intermediate Fencing (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Beginning Fencing strongly recommended prior to enrollment in this course. Physical Education Course fee required.

1151 Beginning Karate (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1152 Intermediate Karate (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Beginning Karate strongly recommended prior to enrollment in this course. Physical Education Course fee required.

1154 Kick Boxing (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1155 Marksmanship-Rifle and Pistol (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1157 Military Conditioning (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1164 Beginning Racquetball (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1166 Advanced Racquetball (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1170 Self Defense (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1173 Soccer (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1178 Beginning Swimming (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1180 Advanced Swimming (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1182 Beginning Tennis (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1184 Advanced Tennis (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1186 Touch Football (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1188 Volleyball (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1191 Water Polo (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

1194 Beginning Weight Training (0-3)

Activity course. Co-educational. May be repeated for credit. Open to all students. Physical Education Course fee required.

See the *Graduate Catalog* for graduate programs and courses.

 Indicates Texas Common Course Number (TCCN)



Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

Rehabilitation Sciences

Occupational Therapy

1101 N. Campbell, Room 500
(915) 747-7270
ot@utep.edu

DIRECTOR: Karen Funk
PROFESSOR EMERITA: Gretchen Schmalz
ASSISTANT PROFESSORS: Haltiwanger, Leech
CLINICAL ASSOCIATE PROFESSOR: Funk
CLINICAL ASSISTANT PROFESSOR: Capshaw

Occupational Therapy is a dynamic profession and an integral part of modern comprehensive health care. Occupational therapy is the use of purposeful activity or interventions designed to achieve functional outcomes which promote health, prevent injury or disability, and which develop, improve, sustain or restore the highest possible level of independence of any individual who has an injury, illness, cognitive impairment, psychosocial dysfunction, mental illness, developmental or learning disability, physical disability, or other disorder or condition. It includes assessment by means of skilled observation or evaluation through the administration and interpretation of standardized or nonstandardized tests and measurements. Occupational Therapy services are provided in a variety of settings, ranging from medical facilities to community health agencies, schools, and private practice.

The Occupational Therapy Program offers a Masters Degree in Occupational Therapy. **While acceptance into the Masters Degree Program does not require prior completion of an undergraduate degree, the competitive nature of the admissions process makes it imperative that interested undergraduates follow a traditional undergraduate major (e.g., Health Promotion, Kinesiology, Biology, Psychology, Social Work, Anthropology, etc.) as they complete the program prerequisites and electives. In addition, undergraduates should be aware of the University Core Curriculum and its requirements as they plan a course of study that may lead to consideration for admission to the Masters Degree in Occupational Therapy. Candidates with a Bachelor's degree will be given preference.**

NOTE: In order to engage in clinical rotations, which are a crucial element in the curriculum, Occupational Therapy students must pass a background check. Therefore, applicants accepted to the Occupational Therapy Masters Degree program will be required to undergo and pass a background check prior to matriculation.

Degree Requirements

- The Bachelor of Science in Occupational Therapy is no longer offered in the United States.
- Students interested in pursuing a Masters in Occupational Therapy will be designated as Pre-Occupational Therapy (P-OT). Students are encouraged to select a program and complete the degree requirements for a major which is closely aligned to the Occupational Therapy Program (e.g., Health Promotion, Kinesiology, Biology, Psychology, Social Work, Anthropology, etc.).
- When planning a course of study that may lead to consideration for the Occupational Therapy Program, students must take courses that apply to the University Core Curriculum, meet requirements for a regular academic major, and satisfy specific program prerequisites.

University Core Requirements (44 semester credit hours). All courses used to satisfy the core curriculum must be completed with a "C" or better.

Hours Course Number and Title

- 3 ENGL 1311 Expository English Composition
or ESOL 1311 Expository English Composition Speakers of ESL
- 3 ENGL 1312 Research and Critical Writing
or ENGL 1313 Writing and Literature
or ESOL 1312 Research and Critical Writing for Speakers of ESL
- 3 COMM 1301 Public Speaking
or COMM 1302 Business and Professional Communication
Note: ENGL/COMM 1611 (Written and Oral Communication) may be used to fulfill the requirement for both ENGL 1311 and COMM 1301 or 1302.
- 3 MATH 1320 Mathematics for Social Sciences
- 4 BIOL 1305 General Biology with BIOL 1107 Lab
- 4 BIOL 1306 Organismal Biology with BIOL 1108 Lab
- 3 Humanities Menu (Select one 3 hour course)
- a. ENGL 2311 English Literature
 - b. ENGL 2312 English Literature
 - c. ENGL 2313 Introduction to American Fiction
 - d. ENGL 2314 Introduction to American Drama
 - e. ENGL 2318 Introduction to American Poetry

- f. HIST 2301 World History to 1500
 - g. HIST 2302 World History since 1500
 - h. PHIL 1301 Introduction to Philosophy
 - i. PHIL 2306 Ethics
- 3 Visual and Performing Arts Menu (Select 3 hours)
- a. ART 1300 Art Appreciation
 - b. ARTH 1305 History of the World Art I
 - c. ARTH 1306 History of the World Art II
 - d. MUSL 1321 Introduction to Music History
 - e. MUSL 1324 Music Appreciation
 - f. THEA 1313 Introduction to Theatre
 - g. FILM 1390 Introduction to the Art of the Motion Picture

3 HIST 1301 History of U.S. to 1865

3 HIST 1302 History of U.S. since 1865

3 POLS 2310 Introduction to Politics

3 POLS 2311 American Government and Politics

3 SOCI 1301 Introduction to Sociology

3 UNIV 1301 Seminar in Critical Inquiry

— *or* UNIV 2350 *Interdisciplinary Technology and Society*

44 hours

Program Prerequisites (31 semester credit hours)

4 BIOL 1305 General Biology with BIOL 1107 Lab

4 BIOL 2311 Human Anatomy/Physiology I with BIOL 2111 Lab

4 BIOL Elective (recommend Human Anatomy/Physiology II, Chemistry, Zoology, etc.)

3 PSYC 1301 Introduction to Psychology

3 PSYC 1303 Statistical Methods

3 PSYC 2310 Life Cycle Development

3 PSYC 2312 Abnormal Psychology (or equivalent)

3 Select upper division courses from PSYC, SOCI, SOWK, or ANTH

3 ENGL 3359 Technical Writing (a writing sample can suffice for this elective in some cases).

1 Medical Terminology Course-Grade or Test score must be provided (can be an online non-degree course). Students with a background in medical terminology may request a waiver for this course.

31 hours

Total semester credit hours for Pre-Occupational Therapy = 90

(44 hours University Core Curriculum; 31 hours program prerequisites; minimum of 15 hours of upper division courses in undergraduate program major)

After completing 90 semester credit hours, students may apply for acceptance in the Graduate School-Masters in Occupational Therapy Program. Students who are not competitive will be directed to other majors/options by the CHS, Student Support Center, Academic Advisors.

Additional Requirements for Admission

1. Completion of the University Core Curriculum prior to beginning the Masters degree Program in Occupational Therapy unless the applicant already holds a baccalaureate degree.
2. A minimum overall GPA of 3.0 (on a four-point scale).
3. A minimum GPA of 3.0 (on a four-point scale) on the occupational therapy prerequisites.
4. Three letters of recommendation (preference for occupational therapists or instructors)
5. Graduate record Examination (GRE) scores.
6. International students (when English is not the official or first language) must have a minimum score of 213/550 on TOEFL.
7. Completed application for the Graduate School.
8. Official transcripts of all colleges or community colleges attended.
9. Graduate application processing fee (\$15 US for permanent residents, \$65 International applicants).
10. Completion of an official interview of all eligible candidates.
11. Although not required, it is recommended that students volunteer in an occupational therapy setting to gain knowledge and core values of the profession.

Selection Criteria

Completion of the above requirements makes a student eligible for selection but does NOT guarantee admission to the Occupational Therapy Program. The final selection is competitive and based on academic course work and the other requirements.

Admissions Process

1. Obtain an *Application for Graduate Admission* from the UTEP Graduate School.
2. Complete at least 90 hours of required prerequisite work as an undergraduate student with a minimum cumulative GPA of 3.0 and a minimum of 3.0 in the Occupational Therapy prerequisite courses work.
3. Submit an *Application for Graduate Admission* with the required fee and a written plan for prerequisite course completion.
4. Arrange to take the *Graduate Record Examination (GRE)* and have the official scores sent to the UTEP Graduate School. International applicants must arrange for the TOEFL score to be sent to the Graduate School.
5. Submit official transcripts of all course work and three confidential letters of reference.
6. If prerequisites are not completed when application is submitted, subsequent transcripts must be submitted as soon as they are available.
7. Interviews for qualified applicants will occur on the UTEP campus when applications are complete.
8. Letters of admission will be sent from the UTEP Graduate School as students are selected and until the class is filled.

All applications, supporting documentation, transcripts, and test scores should be sent to:
Graduate School

223 Academic Services Building

The University of Texas at El Paso

El Paso, Texas 79968

(915) 747-5491

gradschool@utep.edu

Inquiries may be made to:

Occupational Therapy Program
UTEP College of Health Sciences

1101 N. Campbell

El Paso, Texas 79902-0581

(915) 747-8207

ot@utep.edu

See the *Graduate Catalog* for more detailed information about the Occupational Therapy Program.

Physical Therapy

1101 N. Campbell, Room 500
(915) 747-8207
pt@utep.edu

DIRECTOR: Mary Carlson
ASSOCIATE PROFESSOR: Carlson
CLINICAL ASSOCIATE PROFESSORS: Dillon, Ryberg
ASSISTANT PROFESSORS: Ko, Sipla
LECTURERS: Fisher, Walker

(Accredited by the Commission for Accreditation of Physical Therapy Education)

Physical Therapy is a health profession whose primary purpose is the promotion of optimal physical function. Physical therapists apply scientific principles to prevent and treat acute and chronic movement disorders. Physical therapy encompasses areas of specialization and includes the development of new approaches to more effectively meet existing and emerging health care needs. Other areas in which physical therapists participate include research, education, and administration.

The Physical Therapy Program offers a Masters Degree in Physical Therapy. (The first doctoral class [DPT] is expected to enter in Summer 2009.) Twenty-four students are selected each year and begin their studies in the Fall. Successful completion of the academic and clinical components of the Masters Degree makes the graduate eligible to take the Texas (and other State) licensure examination in Physical Therapy. Successful completion of that examination allows the graduate to practice Physical Therapy.

The program with its academic and clinical components is two and one-half calendar years in length (eight consecutive semesters). The semesters are sequential and require full-time attendance. Included in the program are a total of thirty (30) weeks of full-time clinical internships and a research project.

NOTE: In order to engage in clinical rotations, which are a crucial element in the curriculum, Physical Therapy students must pass a background check. Therefore, applicants accepted to the Physical Therapy program will be required to undergo and pass a background check prior to matriculation. Applicants will be responsible for the costs in obtaining a background check report.

Admissions requirements include an earned bachelor's degree and 49 semester hours of prerequisites. The Required Course List is attached. Note that a minimum overall GPA of 3.0 on four point scale, and a minimum GPA of 3.0 in prerequisite courses are required. In addition, 50 clock hours of volunteer or paid experience in a physical therapy setting is required, and must be supervised by a licensed physical therapist. The Graduate Record Exam (GRE) is also required, and while there is no minimum score required, the score will be considered in the competitive admissions process. All science (biology, chemistry, physics) and math courses must have been completed in the last 10 years.

Prerequisite Courses

Forty-nine semester hours are required prerequisite courses. These courses must meet specified conditions¹ and include:

| Semester Hours | Subject | UTEP Course Number | Texas Common Course Number | EPCC Course Number |
|----------------|---|--|----------------------------|---|
| 8 | Biology Science Major Level w/ Lab | BIOL 1305/ 1107 & either BIOL 1306/ 1108 or BIOL 3414 or ZOOL 2406 | 1306/1106 3414 | BIO 1406 BIO 1407 No equivalent BIO 1412 |
| 4 | Physiology Upper level Course w/ Lab | <u>BIOL 4388/ ZOOL 4181</u> or ZOOL 4380/4181 | 4181 | No equivalent |
| 8 | Chemistry | CHEM 1407 & CHEM | 1406 & 1408 | CHEM 1411 & CHEM |

| | | | | |
|---|---|--------------------------------------|--------------|---|
| | | 1408 | | 1412 |
| 8 | Physics Precalculus level w/Lab | PHYS 1403 & PHYS 1404 | 1401 1402 | PHYS 1401 & PHYS 1402 |
| 6 | Psychology General & Development to include entire life span | PSYC 1301 & PSYC 2310 | 2301 2312 | PSYC 2301 & PSYC 2314 |
| 9 | English Must include composition | ENGL 1311 & ENGL 1312 & ENGL 3359 | 1301 1302 | ENGL 1301 & ENGL 1302 No equivalent |
| 3 | Speech | COMM 1301 <u>or</u> COMM 1302 | 1301 1303 | SPCH 1315 or SPCH 1321 |
| 3 | Statistics Should include ANOVA, prefer psychology or education based course | PSYC 1303 | 2317 | PSYC 2317 |

Selection Criteria

Completion of the above requirements makes a student eligible for selection but does NOT guarantee admission to the Physical Therapy Program. The final selection is competitive and based on academic course work and the other requirements.

Admissions Process:

There are two deadlines for submission of admission packets each year. To be considered for Fall interviews **all materials** must be received by November 1. To be considered for Spring interviews, **all materials** must be received by February 1.

Students should apply when they are within 2 semesters of completion of course requirements for admission. **Our objective is to fill the class with students who complete all course requirements by the end of the Spring Semester of the year for entrance into our program.** Completed applications will be reviewed semiannually in November and February. Interviews for qualified applicants will be scheduled in November and February/March for qualified applicants. Following the November interviews, exceptionally well-qualified students will be immediately accepted to the program. Other qualified applicants will be placed in a "pool", will remain in competition for class slots, and will be compared to subsequent applicants in March. The application process will close February 1 for all admissions. Applications remain open for one year (i.e., from date application fee is received by Graduate School). To continue to be considered after one year, one must reapply.

Application Requirements Checklist:

- | <u>Date Sent:</u> | <u>Activity</u> |
|-------------------|---|
| _____ (1) | Application for Admission into the Graduate Degree Program (w/completed Statement of Purpose and required fee) |
| _____ (2) | One official copy of all university transcripts (other than UTEP) |
| _____ (3) | Prerequisite Course Completion Form |
| _____ (4) | Course Completion Plan |
| _____ (5) | Student Profile Sheet |
| _____ (6) | Graduate Financial Assistance Application/Scholarship (Optional) |
| _____ (7) | GRE Scores (Official) |
| _____ (8) | TOEFL scores (international applicants only) |
| _____ (9) | Reference from supervising physical therapist |
| _____ (10) | <u>Two</u> references from individuals who have knowledge of the attributes that qualify you for this program |
| _____ (11) | Physical Therapy Related Experiences Documentation F |

All applications, supporting documentation, transcripts, and test scores should be sent to:

Graduate School (Physical Therapy)
601 W. Schuster

223 Academic Services Building

The University of Texas at El Paso

El Paso, Texas 79968

(915) 747-5491

gradschool@utep.edu

Inquires may be made to:

Physical Therapy Program

UTEP College of Health Sciences

1101 N. Campbell

El Paso, TX 79902-0581

(915) 747-8207

See the *Graduate Catalog* for more detailed information about the Physical Therapy Program.

Speech-Language Pathology

1101 N. Campbell, Room 107
(915) 747-7250
scphlang@utep.edu

DIRECTOR: Anthony P. Salvatore
PROFESSORS EMERITI: Grace Middleton, Joseph A. Perozzi
PROFESSOR: Salvatore
ASSISTANT PROFESSORS: Biswas, Fjordbak, Mueller, Nelson
Lecturer: Navedo
CLINIC COORDINATOR: Valles

Speech-Language Pathology Program

The Program in Speech-Language Pathology offers an innovative five-year plan that culminates with the Master of Science Degree. Students who complete the plan fulfill academic course work and clinical practicum requirements for the Texas License, as well as the Certificate of Clinical Competence in Speech-Language Pathology. The plan includes 97 semester credit hours of undergraduate course work and 33 required semester hours, in addition to registering for five semesters of clinical practicum (15 semester hours), all of which may be completed in five years. Undergraduate students selecting this program will be designated as pre-Speech-Language Pathology majors.

Students with a BS/BA in Speech Language Pathology from another university are encouraged to apply for admission to the Graduate program. Since the plan of study culminates with the Master of Science Degree, undergraduates should be aware of the following:

1. A GPA minimum of 3.0 in upper-division preparatory SPLP undergraduate courses and acceptable GRE scores on the Verbal, Quantitative and Written section are required for acceptance into the Graduate School. A GPA higher than 3.0 may offset low GRE scores; high GRE scores may enhance consideration. A description of the Master of Science program is in the *Graduate Catalog*. Admission is competitive. The number of students admitted each year is dependent on available program resources.
2. Undergraduate students must take the GRE and apply to the Graduate School prior to the completion of the prescribed 97 undergraduate hours.
3. Students whose grades in SPLP courses do not appear to demonstrate the potential for success in Graduate School should discuss the advisability of continuing in the Speech-Language Pathology Program with their advisor prior to beginning the third year.
4. In order to engage in clinical rotations, which are a crucial element in the curriculum, Speech Language Pathology students must pass a background check. Therefore, applicants accepted to the Master of Science in Speech Language Pathology program will be required to undergo and pass a background check prior to matriculation.

Degree Requirements

- The Bachelor of Science in Speech Language Pathology is not offered.
- Students interested in pursuing a Master of Science in Speech Language Pathology will be designated as Pre-Speech Language Pathology (PSHL).
- Students with a BS/BA in Speech Language Pathology from another university are encouraged to apply for admission to the Graduate program.

University Core Requirements (44 semester credit hours). All courses used to satisfy the core curriculum must be completed with a "C" or better.

Hours Course Number and Title

- 3 ENGL 1311 Expository English Composition
or ESOL 1311 Expository English Composition Speakers of ESL
- 3 ENGL 1312 Research and Critical Writing
or ENGL 1313 Writing and Literature
or ESOL 1312 Research and Critical Writing for Speakers of ESL
- 3 COMM 1301 Public Speaking
or COMM 1302 Business and Professional Communication
Note: ENGL/COMM 1611 (Written and Oral Communication) may be used to fulfill the requirement for both ENGL 1311 and COMM 1301 or 1302.
- 3 MATH 1320 Mathematics for Social Sciences
- 4 BIOL 1305 General Biology with BIOL 1107 Lab
- 4 BIOL 1306 Organismal Biology with BIOL 1108 Lab
- 3 Humanities Menu (Select one 3 hour course)
- a. ENGL 2311 English Literature
 - b. ENGL 2312 English Literature
 - c. ENGL 2313 Introduction to American Fiction
 - d. ENGL 2314 Introduction to American Drama
 - e. ENGL 2318 Introduction to American Poetry
 - f. HIST 2301 World History to 1500
 - g. HIST 2302 World History since 1500
 - h. PHIL 1301 Introduction to Philosophy
 - i. PHIL 2306 Ethics
- 3 Visual and Performing Arts Menu (Select 3 hours)
- a. ART 1300 Art Appreciation
 - b. ARTH 1305 History of World Art I

- c. ARTH 1306 History of World Art II
- d. MUSL 1321 Introduction to Music History
- e. MUSL 1324 Music Appreciation
- f. THEA 1313 Introduction to Theatre
- g. FILM 1390 Introduction to the Art of the Motion Picture
- 3 HIST 1301 History of U.S. to 1865
- 3 HIST 1302 History of U.S. since 1865
- 3 POLS 2310 Introduction to Politics
- 3 POLS 2311 American Government and Politics
- 3 Social and Behavioral Sciences
 - a. PSYC 1301 Introduction to Psychology
- 3 UNIV 1301 Seminar in Critical Inquiry
 - or UNIV 2350 Interdisciplinary Technology and Society*
- 3 Physical Sciences

47 hours

Program Prerequisites (16 semester credit hours)

- 3 PSYC 1303 Statistical Methods
- 3 PSYC 2310 Life Cycle Development
- 3 LING 2320 An Introduction to Linguistics
- 3 LING 3357 Sociolinguistics
- 4 BIOL 2311 Human Anatomy/Physiology I with BIOL 2113 Lab

16 hours

Pre-Professional Core Courses (37-34 semester credit hours)

- 3 SPLP 1312 Survey of Speech, Hearing and Language Disorders
- 1 SPLP 2111 General Phonetics Laboratory
- 3 SPLP 2313 General Phonetics
- 3 SPLP 2320 Hearing Science
- 3 SPLP 3310 Language Development
- 3 SPLP 3312 Anatomy and Physiology of the Speech Mechanism
- 3 SPLP 3313 Disorders of Articulation and Phonology
- 3 SPLP 3314 Language Disorders in Pre-School Children
- 3 SPLP 3318 Principles of Clinical Management
- 3 SPLP 4309 Audiology
- 3 SPLP 4310 Aural Rehabilitation
- 3 SPLP 4312 Neural Bases of Speech and Language

Additional courses offered as electives:

- a. SPLP 1300 Introduction to Sign Language
- b. SPLP 4320 Independent Study in SPLP and Audiology
- c. SPLP 4340 Clinical Practicum in Audiology

34 hours

Total semester credit hours for Pre-Speech Language Pathology = 97

After completing the required 97 semester credit hours, students must apply for acceptance into the Graduate School-Master of Science in Speech Language Pathology Program. Students who are not competitive will be directed to other majors/options by the CHS Student Support Center, Academic Advisors.

Recommended Sequence of Courses

Select one degree plan option from the following:

a) **2 Year Undergraduate Option**

1st Year-Fall Semester

- SPLP 2313 General Phonetics
- SPLP 2111 General Phonetics Laboratory
- SPLP 1312 Survey of Speech, Hearing and Language Disorders
- SPLP 3310 Language Development
- SPLP 3312 Anatomy and Physiology of the Speech Mechanism

1st Year-Spring Semester

- SPLP 3313 Disorders of Articulation and Phonology
- SPLP 3314 Language Disorders in Pre-School Children

2nd Year-Fall Semester

- SPLP 2320 Hearing Science

2nd Year-Spring Semester

- SPLP 3318 Principles of Clinical Management
- SPLP 4312 Neural Bases of Speech and Language
- SPLP 4309 Audiology

2nd Year-Summer Semester

- SPLP 4310 Aural Rehabilitation

b) 3-Year Undergraduate Option

1st Year-Fall Semester

- SPLP 2313 General Phonetics
- SPLP 2111 General Phonetics Laboratory
- SPLP 1312 Survey of Speech, Hearing and Language Disorders

1st Year Spring Semester

- SPLP 3313 Disorders of Articulation and Phonology

2nd Year-Fall Semester

- SPLP 3310 Language Development
- SPLP 3312 Anatomy and Physiology of the Speech Mechanism

2nd Year-Spring Semester

- SPLP 3314 Language Disorders in Pre-School Children

3rd Year-Fall Semester

- SPLP 2320 Hearing Science

3rd Year-Spring Semester

- SPLP 3318 Principles of Clinical Management
- SPLP 4312 Neural Bases of Speech and Language
- SPLP 4309 Audiology SPLP

3rd Year-Summer Semester

- SPLP 4310 Aural Rehabilitation

c) Post-Baccalaureate Option

Fall Semester

- SPLP 2313 General Phonetics
- SPLP 2111 General Phonetics Laboratory
- SPLP 2320 Hearing Science
- SPLP 3310 Language Development
- SPLP 3312 Anatomy and Physiology of the Speech Mechanism

Spring Semester

- SPLP 3313 Disorders of Articulation and Phonology
- SPLP 3314 Language Disorders in Pre-School Children
- SPLP 3318 Principles of Clinical Management
- SPLP 4312 Neural Bases of Speech and Language

Summer Semester

- SPLP 4310 Aural Rehabilitation

Speech-Language Pathology Minor for Bachelor of Arts (Liberal Arts) Students:

SPLP 1312, SPLP 4309 (6 hours), and 12-13 hours selected from SPLP 2111, SPLP 2313, SPLP 2320, SPLP 3310, SPLP 3312, and SPLP 4312. For students pursuing admission to the MS in Speech Language Pathology, the SPLP course(s) not selected as a part of the minor (totaling 3-4 hours) may be used as elective credit in the Linguistics major. These students will be advised jointly by Linguistics and Speech-Language Pathology programs.

Speech-Language Pathology (SPLP)

1300 Introduction to Sign Language (3-0)

A beginning course in sign language, including finger spelling and the system of signed English.

1312 Survey of Speech, Hearing and Language Disorders (3-0)

A survey of disorders associated with the five parameters of communication: audition, articulation, voice, fluency, and language. Course includes discussion of the professional aspects

speech-language pathology and audiology.

2111 General Phonetics Laboratory (0-2)

Experience using the International Phonetic Alphabet for transcription of standard and nonstandard speakers. *Corequisite:* SPLP 2313. SPLP 2313 must be taken concurrently with SPLP 2111.

2313 General Phonetics (3-0)

Principles of speech sound production, their acoustic correlates, and their perception. Instruction in the use of the International Phonetic Alphabet is included with application to communication disorders. *Corequisite:* SPLP 2111. SPLP 2313 must be taken concurrently with SPLP 2111.

2320 Hearing Science (3-0)

Anatomy and physiology of the auditory mechanism and the nature, measurement, and psychoacoustics of sound.

3310 Language Development (3-0)

Theory and chronology of speech and language acquisition with emphasis on the cognitive and physiological correlates of language as related to communication disorders. Cultural impacts on language development and usage are discussed.

3312 Anatomy and Physiology of the Speech Mechanism (3-0)

The anatomical and physiological bases of speech. Emphasis is placed on respiration, phonation, resonance, articulation, and deglutition.

3313 Disorders of Articulation and Phonology (3-0)

A study of disorders of articulation and phonology in children and adults including characteristics, causes, and procedures for diagnosis and treatment. *Prerequisites:* SPLP 2111 or SPLP 1110, and SPLP 1312 or SPLP 3210, and SPLP 2313 or SPLP 3110, and SPLP 3312, each with a grade of "C" or better.

3314 Language Disorders in Pre-School Children (3-0)

Theoretical foundations, diagnosis, and intervention for language impairments in pre-school populations. Multicultural issues related to language disorders in this population are discussed. *Prerequisites:* SPLP 3310 or SPLP 3315, and SPLP 2111 or SPLP 1110, and SPLP 2313 or SPLP 3110, and SPLP 1312 or SPLP 3210, and SPLP 3312, each with a grade of "C" or better.

3318 Principles of Clinical Management (3-0)

Preparation of diagnostic reports, treatment plans, and other written documentation of client performance and progress. The treatment sequence, ethical decision-making, universal precautions for infection prevention, and the team approach to treatment are also discussed. Completion of 25 clock hours of supervised clinical observation. *Prerequisites:* SPLP 3310, SPLP 3312, SPLP 3313, SPLP 3314, SPLP 2111 or SPLP 1110, SPLP 2313 or SPLP 3110, and SPLP 1312 or SPLP 3210, each with a grade of "C" or better.

4309 Audiology (3-0)

The study of hearing and hearing disorders with an emphasis on the basic audiological test battery. *Prerequisite:* SPLP 2320 with a grade of "C" or better.

4310 Aural Rehabilitation (3-0)

This course is an introduction to aural rehabilitation of adults and children. Included is information regarding the identification, assessment and remediation of hearing loss. *Prerequisites:* SPLP 4309 with a grade of "C" or better and department approval.

4312 Neural Bases of Speech and Language (3-0)

Study of neuroanatomical and neurophysiological mechanisms related to speech and language. *Prerequisites:* BIOL 2311, BIOL 2111, and SPLP 3312, each with a grade of "C" or better.

4320 Independent Study in Speech-Language Pathology and Audiology (0-0-3)

Individual directed study. May be repeated when topic varies. *Prerequisites:* Completion of 12 semester hours of SPLP course work with a GPA of 3.0 and instructor approval.

4340 Clinical Practicum in Audiology (0-0-3)

Supervised practicum in audiology. *Prerequisites:* SPLP 2320 and SPLP 4309, each with a grade of "C" or better. Liability insurance required. Course fee required.

See the *Graduate Catalog* for graduate programs and courses.

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catalog.utep.edu.

Social Work

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Social Work is a challenging and rewarding profession with the primary goal of helping individuals, families, small groups, organizations, and communities develop knowledge, values, and skills to help themselves to a better quality of life. The purpose of professional social work education is to enable students to integrate the knowledge, values, and skills of the social work profession into competent practice. Fully accredited by the Council on Social Work Education, the Social Work Program at UTEP prepares students for beginning professionally supervised practice.

Social Work Program Mission

The mission of the Social Work Program is derived from UTEP's own statement of purpose, the standards of accreditation of the Council on Social Work Education, and the region served by the University. More specifically, the Social Work Program at UTEP has as its primary mission the training of culturally competent generalist social work practitioners capable of providing an array of social services to the unique bicultural, bi-national populations living within the service areas identified by the University.

More specifically, the program seeks to achieve its mission through the fulfillment of the following goals:

1. Providing students with liberal-arts based entry-level generalist knowledge, skills, and values related to professional social work practice with individuals, families, groups, organizations, and communities from a cultural competence/social justice perspective.
2. Preparing entry-level generalist social workers equipped with knowledge, skills, and abilities necessary for culturally competent professional practice within the bi-national, multicultural context of a borderlands region.
3. Preparing graduates who are able to use knowledge of mechanisms of oppression to empower client systems at any level to promote social justice through achievement of optimal systems' functioning.
 4. Preparing entry level generalist social work students with an understanding of the utility and process of scientific inquiry as a basis for evidence-based practice, including the evaluation of programs and individual practice.
 5. Preparing BSW students for graduate education in social work.
 6. Producing high quality professional BSW graduates able to meet the needs of human service agencies of a borderlands region.

Bachelor of Social Work Degree

Professional social work advisement allows for early and periodic evaluation of each student's performance and guides students in selecting areas of course work. Professional academic advising is therefore essential for all students (pre-professional, transfer, and admitted) to ensure that course work complies with the current BSW degree plan. Professional academic advising for social work and pre-social work majors may be done only by UTEP social work faculty.

The BSW degree plan is designed to assure coverage of CSWE accreditation mandated curriculum content. This degree plan is based on the building block analogy of Social Work education. The freshman year is considered the liberal arts year. The sophomore year is the pre-professional year. The junior year is the foundation professional year. The senior year is the advanced professional year. Students shall be considered pre-professionals if they have completed at least 30 hours in the Liberal Arts Core Curriculum and have officially declared Social Work as their major.

Social Work classes are sequentially offered and include content on values, ethics, diversity, social and economic justice, populations at risk, human behavior and the social environment, social welfare policy and services, social work practice, research, and field practicum.

The Social Work program places a strong value on community involvement and students begin early in their course of study to gain practical experience through volunteer hours in approved agencies. In the foundation professional (junior) year, a pre-internship experience of 60 hours is incorporated into SOWK 3355 Introduction to Generalist Practice I.

BSW Admissions Policy

All students who wish to graduate from the BSW Degree Program at UTEP must apply for a separate admission into the Program and gain either clear or conditional acceptance. This acceptance is granted through the Social Work Program office. Only students who have been admitted into the BSW Degree Program and have completed all degree plan requirements in both the liberal arts core and the social work major will be recommended for graduation with a BSW degree.

All UTEP students who completed course work before the program was accredited in June 1995 and transfer students should review the Policy on Certification of Coursework to ensure that social work courses comply with the requirements of the current BSW degree plan.

While a criminal background check is not required for admission to or completion of the program, student internships associated with this program may require students to complete a criminal background check prior to work at an agency.

Admissions Criteria

1. UTEP Students

- a. Completion of the University Core Curriculum and additional required College of Health Sciences pre-professional courses (a total minimum of 64 hours). The following is the list of UTEP courses from which the 64 hours will be counted (A minimum grade of "C" is required in University Core and pre-professional course work. University Core Curriculum is indicated with a "+"):
- (1) English Composition (6 hours): ENGL 1311⁺ and ENGL 1312⁺ or ENGL 1313⁺
*ENGL 1611 or COMM 1611 may be used to meet this requirement, or ESOL 1311 and ESOL 1312 in place of ENGL 1312 and 1313 (placement exam).
 - (2) History (6 hours): HIST 1301⁺ and HIST 1302⁺
 - (3) Political Science (6 hours): POLS 2310⁺ and POLS 2311⁺ must include Texas Government
 - (4) Language (6 hours): Spanish recommended (2300 and above) (placement exam) Health Professional Spanish course recommended
 - (5) Humanities from menu (3 hours): PHIL 1301⁺ recommended
 - (6) MATH 1320⁺ (placement exam)
 - (7) Statistics (3 hours): one course from PSYC 1303, SOCI 2312, STAT 1380, or STAT 2380 (PSYC 1303 recommended)
 - (8) Science (7 hours): University Core Natural Science⁺ Sequence BIOL 1305, 1107 and 2311 required.
 - (9) PSYC 1301⁺
 - (10) SOCI 1301⁺
 - (11) Visual/Performing Arts (3 hours): University Core Visual/Performing Arts⁺ from menu
 - (12) Communications (3 hours): COMM 1301⁺ or 1302⁺; ENGL/COMM 1611 may be used to meet this requirement.
 - (13) Institutionally Designated Option UNIV 1301⁺ or UNIV 2350⁺
 - (14) ECON 1301 or 2303
 - (15) ENGL 3359 or 3355
 - (16) SOWK 2310
- b. 11 units of social work course work at UTEP
- c. An overall GPA of 2.0 at the time of application
- d. A GPA of 2.5 in any social work course work
- e. No grades of "D" or "F" in any courses on the degree plan
- f. Student Statement of Professional Goals
- g. Approval of the Admissions Committee

2. Transfer Students

- a. Transfer coursework from community college (2-year program)
- (1) A maximum of 66 semester hours is transferable to a UTEP degree program from a two-year institution.
 - (2) 11 units of social work course work at UTEP
 - (3) An overall GPA of 2.0 at the time of application
 - (4) A GPA of 2.5 in any social work course work
 - (5) No grades of "D" or "F" in any courses on the degree plan
 - (6) Student Statement of Professional Goals
 - (7) Approval of the Admissions Committee.
- b. Transfer coursework from a four-year university CSWE accredited BSW program:
- (1) Student may transfer up to 30 semester hours from a CSWE accredited BSW degree program
 - (a) An introduction to social work course (three hours)
 - (b) Up to six hours of social policy
 - (c) Up to six hours of HBSE
 - (d) Up to nine hours of practice
 - (e) Up to three hours of research courses
 - (2) An overall GPA of 2.0 at the time of application.
 - (3) A GPA of 2.5 in any social work course work
 - (4) No grades of "D" or "F" in any courses on the degree plan
 - (5) Student Statement of Professional Goals
 - (6) Approval of the Admissions Committee.

Students must complete at least 25% of the semester hours needed for graduation (a minimum of 32 hours) in residence.

Students must complete 24 of the last 30 semester hours needed for graduation hours in residence.

Students must complete 12 advanced hours in their major in residence within 3 years of graduation.

BSW Admissions Application Process

1. Admissions Application: All students who wish to apply for the BSW Degree Program must complete an admissions application available from the Social Work Program office. A

completed application includes:

- a. Completed application form
 - b. Copy of official transcripts
 - c. Student Statement of Professional Goals
 - d. Two letters of professional reference
 - e. Completed *Transfer Credit Evaluation* form, if applicable
2. Applications Reviews: Application deadlines are December 1st and May 1st of each academic year. Admissions applications are individually reviewed by the BSW Admissions Committee during the months of December and May of each year. Students are notified of faculty decisions by mail.
3. Admissions Decisions: The following decisions are made on admissions application folders by the Admissions Committee:
- a. Clear Admission: Application is accepted with no problems.
 - b. Conditional Admission: Application is accepted with a GPA or other condition. In order to remain in the BSW degree program following conditional admission, students are required to post a 2.5 GPA in coursework the succeeding semester, with no grade of "D" or "F" on the degree plan. Students who post less than a 2.5 GPA in the succeeding semester following conditional admission will not be allowed to enroll in social work practice courses.
 - c. Denied Admission: Application is not accepted. Students denied admission should see their advisor and may reapply the following admissions cycle.
- A designation other than clear admission requires a meeting of the student with the faculty advisor. The purpose of the meeting is to design a plan to address any outstanding concerns in the file.

Professional/Advanced Professional Courses

To complete the requirements for the BSW degree, the student takes the following courses (for admission to and additional requirements for the Field Work sequence, see below).

Professional/Advanced Professional Courses (a total of 56 hours)

Social Work Core (36 hours)

SOWK 2331, 2320, 3341, 3355, 3320, 3330, 3358, 4282, 4480, 4281, 4370, 4490.

Social Work Electives (11 hours)

Select 11 hours from SOWK 3326, 3336, 3345, 3346, 3350, 3365, 3370.

Social Work Support Courses (9 hours, approved by Advisor)

Subject to approval by the Advisor, courses may be chosen from Psychology, Sociology, Anthropology, Criminal Justice, Political Science, Chicano Studies, African American Studies, Asian and African Studies, Women's Studies, and Health Sciences and Philosophy.

Total hours required for BSW degree: 120

Field Instruction

During their professional (senior) year, students complete their field practicum, working 16 hours per week in an approved social service or health care agency under the supervision of a degreed social worker. Students are required to make formal application for the field practicum by contacting the Coordinator of Field Practicum in the academic semester preceding their placement.

Admission to Field Instruction

All BSW students must complete a supervised field instruction sequence. In order to be considered eligible for field instruction, students must meet the following criteria:

1. Have a 2.0 or better cumulative GPA on a 4.0 scale in the Liberal Arts foundation courses.
2. Have a 2.5 or better cumulative GPA for all courses completed in Social Work by the end of the second semester of the foundation professional year of study.
3. Completed SOWK 2310, SOWK 2331, SOWK 2320, SOWK 3320, SOWK 3330, SOWK 3341, and SOWK 3355 with a grade of "C" or better in each of these courses

Social Work (SOWK)

2310 Introduction to Social Work and Social Welfare (3-0)

( SOCW 2361)

Introduction to the human service delivery system in the United States, with an emphasis on the social work profession: its mission, philosophy, ethics, values, diverse fields, and ethnocultural perspectives. Observations of social service agencies and guest speakers provide a career orientation to the social work

profession.

2320 Social Welfare Policy and Services I (3-0)

2329 Social Welfare Policy and Services I (3-0)

Examination of the historical evolution of Social Welfare and the social work profession, with focus on the social policies which comprise the foundation of the welfare state in the United States. Present patterns of social welfare services will also be examined. Emphasis is on the historical evolution of contemporary social problems in the borderlands region. Oppression, discrimination, justice/immigration issues and policies, and their impact on diverse populations at risk will be explored. Required for pre-social work majors. *Prerequisites:* SOWK 2310 with a grade of "C" or better.

2331 Human Behavior and Social Environment I (3-0)

Designed to introduce beginning social work students to some mainstream theoretical explanations by which to view individuals, groups, and families. Students will be given an opportunity to compare traditional mainstream models with newer alternative paradigms that focus on human growth and development from a strengths perspective. Special emphasis is placed on issues of cultural, racial, ethnic diversity, racism, sexism, ageism, and disabling mental or physical conditions. *Prerequisites:* SOWK 2310 with a grade of "C" or better.

3170 Special Issues in Social Work (1-0)

3270 Special Issues in Social Work (2-0)

3370 Special Issues in Social Work (3-0)

Professional concerns and issues of social work will be selected by the instructor dependent on student needs. Students may repeat this course if the focus of the course differs.

3320 Social Welfare Policy and Services II (3-0)

An analysis of current major issues and problems in the formulation of social welfare policies on the local, state, and federal levels in the U.S. Social Security, health, education, public welfare and income maintenance, immigration, and international agreements will be highlighted. The impact of various policies upon Hispanics and other at risk populations in the borderlands region. Application of strategies of change will be emphasized. *Prerequisites:* SOWK 2320, POLS 2310 and POLS 2311 each with a grade of "C" or better.

3326 Social Work in Mexican-American Communities (3-0)

Emphasis is placed on special needs of the Spanish-speaking population in the borderlands region. This course will focus on the following areas: language and culture as barriers or facilitators to service delivery; cultural competence needed in the delivery of services; international considerations for service delivery; cultural pluralism considerations for service delivery; community organization with groups in Spanish-speaking communities.

3330 Research Methods in Social Work (3-0)

An understanding and appreciation of a scientific, analytic approach to building knowledge for practice and for evaluating service delivery in all areas of intervention including student's own practice. Ethical standards, critical thinking, and writing skills will be emphasized. Various methods for analyzing, evaluating, and utilizing research findings will be presented. Theoretical constructs for conducting culturally sensitive, quantitative/qualitative research in borderlands region will be examined. Restricted to Social Work majors only. *Prerequisites:* SOWK 2320, SOWK 2331 and SOWK 3341 each with a grade of "C" or better.

3336 Child Welfare Practice and Services (3-0)

Overview of practice and policy issues, problems, and opportunities in the provision of child welfare services in the borderlands region. Emphasis will be given to: collaborative international efforts, culturally sensitive intervention approaches, case management, family preservation, and other intervention strategies. *Prerequisites:* SOWK 2310 and SOWK 2320 each with a grade of "C" or better.

3341 Human Behavior and Social Environment II (3-0)

Designed to introduce beginning social work students to various theoretical models by which to view how groups, communities, and organizations interface and interact with the social environment. Students will also examine various theoretical models of poverty, particularly as these influence social welfare policies and/or affect the delivery of social services to impoverished populations. Restricted to Social Work majors only. *Prerequisites:* SOWK 2310 with a grade of "C" or better.

3345 Social Work and the Aging: Cross-Cultural Perspective (3-0)

An examination of the needs and concerns of the aging person in our society from a social/cultural/physiological/ emotional perspective and of methods used to address those needs and concerns. Emphasis will be on advocacy, case management, networking, and direct care methods, and their application to Hispanics and other diverse populations in the borderlands region.

3346 The Process of Addiction: A Cross-Cultural Perspective (3-0)

An examination of the cross-cultural implications of the process of addiction in borderlands region. Focus is on the comparative patterns of addictions by gender, age, family, and ethnocultural culturally competent intervention modalities will be explored.

3350 Diagnostic Systems for Social Workers (3-0)

Survey of selected diagnostic classification systems, including the DSM-IV, curanderismo/folk-healing practices, and alternative schema based on themes of conflict. Assessment and diagnosis of client and community situations, including cultural understandings of mental and emotional disorders.

3355 Generalist Social Work Practice I (3-0)

This is the first of three generalist practice courses designed to provide entry level theory, knowledge, research, values, and skills for social work practice with individuals. Self-awareness, problem solving, interviewing, professional relationships, intervention planning and skills, and ethics are included. An ethnocultural perspective with particular focus on the borderlands region is emphasized. Restricted to Social Work majors only. Sixty hours of volunteer service are required. *Prerequisites:* SOWK 2331 with a grade of "C" or better.

3358 Generalist Social Work Practice II (3-0)

This is the second of three generalist practice courses designed to provide entry-level theory, knowledge, research, values, and skills for social work practice with groups and families. This course continues to build on the problem-solving model, intervention methods, and planning introduced in Social Work 3355. An ethnocultural perspective with particular focus on the borderlands region is emphasized. Sixty hours of volunteer service are required. Restricted to Social Work majors only. *Prerequisites:* SOWK 2331, SOWK 3320, SOWK 3330, SOWK 3341, and SOWK 3355 each with a grade of "C" or better.

3365 Social Work with Special Populations (3-0)

Emphasis is placed on theories, concepts, and techniques of social group work in a wide range of social work settings. This course also covers content on the importance of age, gender, ethnicity, socio-economic status, women, sexual orientation, and disabilities in group processes. *Prerequisite:* Junior standing. Students may repeat this course if the focus of the course differs.

3375 Independent Study (0-0-3)

Supervised individual reading and research leading to development of a major paper or report. *Prerequisites:* 9 hours of advanced course work in Social Work and department approval.

4281 Introductory Generalist Field Seminar (2-0)

A capstone seminar that enables students to integrate the theory, knowledge, values, skills, ethics, and ethnocultural competence of generalist social work practice. *Corequisite:* SOWK 4480. *Prerequisites:* SOWK 2331, SOWK 3320, SOWK 3330, and SOWK 3355 each with a grade of "C" or better.

4282 Advanced Generalist Field Seminar (2-0)

A capstone seminar that enables students to integrate the theory, knowledge, values, skills, ethics, and ethnocultural competence of generalist social work practice. Emphasis will include an evaluation of one's own practice. Restricted to Social Work majors only. *Corequisite:* SOWK 4490. *Prerequisites:* SOWK 4281, and SOWK 4480 each with a grade of "C" or better.

4370 Generalist Social Work Practice III (3-0)

This is the third of three generalist practice courses designed to provide entry-level theory, knowledge, research, values, and skills for social work practice with organizations and communities. This course continues to build on the problem-solving model, intervention methods, and planning introduced in SOWK 3355 and SOWK 3358 with an emphasis on community development skills and strategies of change. An ethnocultural perspective with particular focus on the borderlands region is emphasized. Restricted to Social Work majors only. *Prerequisites:* SOWK 4281 and SOWK 4480 each with a grade of "C" or better

4480 Field Instruction I (0-0-4)

First of two field courses in a supervised, laboratory learning experience in a selected social welfare agency consisting of 240 hours. A weekly seminar (SOWK 4281) accompanies this course which enables the student to integrate and apply classroom learning (theory and practice) in a field setting. An ethnocultural practice perspective is emphasized. Restricted to Social Work majors only. *Corequisite:* SOWK 4281. *Prerequisites:* Formal admission to field placement, SOWK 3330, and SOWK 3355 each with a grade of "C" or better. Course fee required

4490 Field Instruction II (0-0-4)

The second course of the field learning experience in a selected social welfare agency requires a minimum of 240 hours. It is accompanied by a seminar (SOWK 4282) to optimally integrate and apply generalist social work practice. An ethnocultural practice perspective is emphasized. Restricted to Social Work majors only. *Corequisite:* SOWK 4282. *Prerequisites:* SOWK 3355, SOWK 3358, SOWK 4281, and SOWK 4480 each with a grade of "C" or better.

✦ Indicates Texas Common Course Number

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Cooperative Program

UTEP-UT Austin Cooperative Pharmacy Program

1100 N. Stanton, Suite 301
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PROGRAM DIRECTOR: José O. Rivera
REGIONAL DIRECTOR, EL PASO INTERNSHIP PROGRAM: William A. Klein III
PROFESSOR: José O. Rivera
CLINICAL ASSOCIATE PROFESSOR: Rivera
CLINICAL ASSISTANT PROFESSORS: Anaya, Loya, Salcido, Sias
COORDINATORS: Ho, Reilly, Rudder

The University of Texas at Austin College of Pharmacy, in cooperation with The University of Texas at El Paso, offers a six-year curriculum leading to the Doctor of Pharmacy (Pharm.D.) degree. This program offers a course of study in the pharmaceutical and clinical sciences designed to provide the community with pharmacists who are scientifically trained and clinically competent to deliver a full spectrum of pharmaceutical services in all areas of practice.

The Pharm.D. degree is designed to prepare men and women whose abilities and career aspirations suggest significant potential for innovative leadership in professional practice. In addition, this degree will prepare students to practice pharmacy in a contemporary setting, whether in a community or hospital pharmacy, in a long-term care facility, or in the pharmaceutical industry. This objective is met through a balanced program of study in pharmaceuticals, pharmaceutical and natural products chemistry, pharmacology, therapeutics, pharmacy administration, natural and social sciences, and the humanities, as well as a structured clinical and professional practice experience program. In addition, the curriculum is aimed at inculcating an understanding of the basic sciences sufficient to prepare the student for graduate study in the pharmaceutical sciences.

The Cooperative Pharmacy Program is designed to facilitate access to the College of Pharmacy at Austin by providing opportunities to fulfill pre-pharmacy requirements in El Paso.

The Pharmacy Scholars Program (PSP), which is an integral part of the Cooperative Pharmacy Program, provides highly qualified high school seniors conditional admission to The University of Texas College of Pharmacy and supplements the usual application process for admission to UT College of Pharmacy. A select number of students will be chosen to enroll in the program each year. These undergraduates will select the pre-pharmacy major and are encouraged to take advantage of the diversity and many opportunities at UTEP. Students selected for this program attend UTEP for approximately two years to complete their pre-pharmacy curriculum (e.g., organic chemistry, calculus, and physics) and, after obtaining required criteria, will move to Austin to attend the College of Pharmacy for approximately two years. The final approximately two years of the six-year curriculum will be completed in El Paso, and successful candidates will receive their degree from The University of Texas at Austin College of Pharmacy, in cooperation with the Cooperative Pharmacy Program at UTEP. Further information about the program can be obtained by calling (915) 747-8519. The program office is located at 1100 N. Stanton, Suite 301, El Paso, TX 79902. Web Site: <http://chs.utep.edu/pharmacy/home.html>.

Courses in African-American Studies, Chicano Studies, Latin American/Border Studies, Religious Studies, Western Cultural Heritage (Humanities), and Women's Studies that are also cross-listed will be counted in the block to which the course is cross-listed. If a course is not cross-listed, each Studies Program will determine into which block its courses will fit.

Major Field (27-36 hours)

Students will complete a major prescribed by an academic department in the College of Liberal Arts (or Science or Business Administration [for the Economics major]) of at least 27 hours, 18 or more of which must be advanced (3000-4000 level). Students should refer to the individual departmental listings in this Catalog for specific major field requirements.

Nine of the advanced hours in the major must be completed in residence within three years prior to the date of graduation. No course taken on a Pass/Fail basis may be counted for the major, even though the student changes majors after having taken the course. A completed degree plan must include a minimum grade point average (GPA) of "C" (2.0) in the major. Credit for courses taken to fulfill the major field requirements may not also be counted to satisfy minor or College General Education field requirements.

A student who fulfills requirements for two majors prescribed by academic departments in the College of Liberal Arts (or Science or Business Administration [for the Economics major]) may earn a degree with a double major, provided that the two majors are from different fields. The second major fulfills the requirement for a minor field. There must be a minimum GPA of "C" (2.0) in both majors. Credit for courses taken to fulfill the major field requirements in one major may not also be counted to satisfy requirements in the other major field.

Minor Field (18 hours)

Students will complete a minor of at least 18 or more hours, nine of which must be advanced (3000-4000 level). The minor field must be selected from a discipline different from that of the major field. Credit for courses taken to fulfill the minor field requirements may not also be counted to satisfy major field requirements. No course taken on a Pass/Fail basis may be counted for the minor, even though the student changes minors after having taken the course. A completed degree plan must include a minimum GPA of "C" (2.0) in the minor. Students should refer to the individual departmental listings in this Catalog for specific minor requirements.

Liberal Arts minor fields are available in Anthropology, Art, Art History, Communication, Creative Writing, Criminal Justice, Dance, English and American Literature, Film Studies, French, German, History, Linguistics, Music, Philosophy, Political Science, Professional Writing and Rhetoric, Psychology, Sociology, Spanish, and Theatre Arts. Students should refer to the departmental listings for requirements.

Interdisciplinary minors are also available. However, no more than six hours from a student's major field may be counted toward such a minor, and courses so counting may not help satisfy the major requirement. In addition, no more than nine hours from any one discipline will be counted as part of such a minor. Students electing an interdisciplinary *major* may not elect an interdisciplinary *minor*. The following are approved interdisciplinary minors: African American Studies, Asian and African Studies, Border Studies, Chicano Studies, Humanities, Latin American Studies, Military Studies, Religious Studies, Russian and Post-Communist Studies, Translation (Spanish/English), Urban Studies, and Women's Studies. (Students should refer to the section on Interdisciplinary Minors.)

Minors may also be selected from the following approved disciplines in other colleges:

Accounting Minor: ACCT 2301 and ACCT 2302, CIS 2320, and 9 hours from ACCT 3321, ACCT 3322, ACCT 3323, ACCT 3327, ACCT 4301, ACCT 4305, or ACCT 4328

Bilingual Education: BED 4327, BED 4340, BED 4341, BED 4342, BED 4343, BED 4344. Please see Teacher Certification below.

Computer Information Systems Minor: ACCT 2301 and CIS 2320, CIS 2335, CIS 3385, CIS 3350, and CIS 3355

Early Childhood Education: ECED 3333, ECED 3340, ECED 4353, ECED 4356, ECED 4358, ECED 4359. Please see Teacher Certification below.

Economics Minor: ECON 2303, ECON 2304, and either ECON 3302 or ECON 3303, plus 9 hours from ECON 3300 or ECON 4300 level courses

General Business Minor: CIS 2320 and 15 hours from BLAW 3301, ACCT 3309 or ACCT 2301, MKT 3300, MGMT 3303 or MGMT 3304, FIN 3310, ECON 3320, or CIS 3345

Management Minor: CIS 2320, ACCT 2301, and 12 hours from BLAW 3301, MGMT 3303, MGMT 3311, MGMT 3320, POM 3321, or MGMT 4325

Marketing Minor: QMB 2301, ACCT 2301, MKT 3300, MKT 3302; plus 6 hours from

MKT 3305, MKT 3320, MKT 4390, MKT 4391, and MKT 4392

Speech-Language Pathology Minor for Bachelor of Arts (Liberal Arts) Students: SPLP 1110, SPLP 1310, SPLP 2310, SPLP 3315, and SPLP 4309 (13 hours), and two courses selected from SPLP 3312, SPLP 3313, SPLP 3314, or SPLP 3317 (6 hours)

Science Minors are available in Biology, Chemistry, Geology, Mathematics, and Physics. Students should refer to the College of Science departmental listings for details.

Electives

Students will complete electives as needed to bring the total semester hours of credit to at least 120. Elective credit cannot also be used in meeting any other degree requirement. Electives of advanced (3000-4000) level may, however, be applied toward satisfaction of the requirement of 45 advanced hours.

Teacher Certification

Primary and Middle Grades Certification

Incoming students who plan to teach in elementary or middle schools will ordinarily earn the Bachelor of Interdisciplinary Studies degree. These students are referred to the description of that degree contained in the Catalog section for the College of Education.

Students who have completed a degree offered in the College of Liberal Arts, or who plan to earn such a degree, should consult with the Education Advising Office in the College of Education concerning the requirements for certification to teach in the elementary or middle schools.

All-Levels Certification

All-Levels programs are available in Art and Music. Interested students are referred to the description of those programs in the Catalog section for the Department of Art and the Department of Music.

Secondary Certification

Certification program requirements for students seeking a BA in Mathematics are described in the Catalog section for the College of Science. Other certification programs in the sciences are also described in that section.

Certification for teaching in secondary schools is available in the following Liberal Arts fields: Communication, Dance, English, Language Arts and Reading, French, History, Social Studies, Spanish, and Theatre Arts. Students who plan to teach these subjects in the secondary schools will earn the Bachelor of Arts degree in the selected field after meeting all the requirements for that degree as described above and in the Catalog section for the department of the major. In order to meet TEA's certification requirements, courses must be selected in accordance with the following restrictions and recommendations:

1. 36 semester hours in the major field are required. 21 semester hours in the major must be upper-division courses. A GPA of 2.5 or higher is required in the major. In the case of

some majors, specific courses are required for students seeking secondary certification. For further information, students should read the section of the Catalog that describes the requirements of the major department.

2. 12 semester hours of courses in a supporting field are required. The supporting field will ordinarily be in an area where the student is interested in developing a second teaching field.
3. The minor must be taken in Education. A GPA of 2.5 or higher is required in the minor.
4. RED 3342 is required for certification. This course does not meet any of the requirements for the BA degree.
5. The requirement of a course in computing is met by completing EDT 3371

Teacher certification in the **Social Studies Composite** is available to students who choose to major in History, with a Concentration in Social Studies Teacher Preparation and a minor in Secondary Education. The following course requirements must be met:

1. ECON 2303 and ECON 2304
2. 6 hours from the following:
GEOG (Any courses)
3. HIST 2301, HIST 2302, HIST 3317, HIST 4325, HIST 3390 (Special Topics-Major Themes in Social Studies), 6 hours HIST 3-4000* in American History, 3 hours HIST 3-4000* in American or World History
4. POLS 4318 or POLS 4357 and 3 hours POLS 3-4000*.

*These courses should be selected from an approved list. Please see the secondary education advisor.

Teacher certification in **English/Language Arts**, which provides candidates the opportunity to prepare to teach Communication, English, and Reading in secondary schools, is available to students who major in English with an Emphasis on Teaching, minor in Secondary Education, and complete the following requirements:

- 3 Credits: British Literature Survey
- 3 Credits: Literary Studies
- 3 Credits: Shakespeare
- 3 Credits: British Literature
- 6 Credits: American Literature Survey
- 3 Credits: Diverse Literatures
- 6 Credits: Language and Writing
- 6 Credits: Electives (Language, Reading, and Writing)
- 3 Credits: Theory and Practice

Specific courses that satisfy these credit requirements are listed in the English Department section of this catalog.

Before students are allowed to take the TExES test, they must successfully write a textual analysis essay. Students must also earn a minimum score of 80% on the practice TExES. For additional information on requirements for the TExES test, see the Department of English section of the catalog.

Minor in Education for the BA with Secondary Certification

Admission to professional teacher certification programs is required before enrollment in the courses. Students should contact the Advising Office in the College of Education or the Secondary Education Advisor in the College of Liberal Arts for details. (For Admission to Teacher Education requirements, refer to that section in the College of Education section of this catalog.) The following courses are required for the students in the Liberal Arts disciplines who are seeking secondary certification:

Pre-Block: EDT 3371 and

For English majors: ENGL 4355

For French or Spanish majors: FREN 4301, or
SPAN 4301

For majors in the Social Sciences: SCED 3312

For other Liberal Arts majors: SCED 3312

For Math majors: SCED 4367

Block 1: SCED 3311, EDPC 3300, and SCED 4393

Block 2: SCED 3317, RED 3342, and SCED 4394

Bachelor of Fine Arts

This professional degree is offered in three fields: Art, Dance, and Music Theatre. The Art degree is offered with the following areas of specialization:

Major: Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, and Sculpture

Minor: Art Education, Art History, Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, and Sculpture

For specific requirements, students should refer to the Art Department section of this catalog.

The BFA in Dance is a Ballet Performance major offered by the Department of Music. For specific requirements, students should refer to the Music Department section of this catalog.

The BFA in Music Theatre is a multi-disciplinary degree offered by the Department of Music and the Department of Theatre, Dance, and Film. For specific requirements, students should refer to the Liberal Arts Interdisciplinary section of this catalog.

Bachelor of Music

Students may pursue this professional Music degree in one of three areas:

1. General Music—choral and instrumental (All-Levels Teaching Program)
2. Performance—orchestra and band instruments, keyboard instruments, or voice.
3. Theory and Composition

For specific requirements, students should refer to the Music Department section of this catalog.

Bachelor of Science in Psychology

The Psychology Department and each department in the College of Science offer the Bachelor of Science (BS) degree. The BS in Psychology is subject to the BS degree plan listed in the College of Science section and the BS degree plan listed in the Psychology Department section.

Graduate Studies

Graduate degrees are offered in most Liberal Arts disciplines, including Art, Communication, English, History, Interdisciplinary Studies, Linguistics, Music, Political Science, Psychology, Sociology, Spanish, Teaching English, and Theatre Arts. Details of graduate programs are contained in the *Graduate Catalog* and are available from individual departments and the Graduate School.

Interdisciplinary Minors

The College offers several interdisciplinary programs of study that can be pursued in conjunction with any major (except an interdisciplinary major). These minors require the completion of a minimum of 18 semester hours.

African American Studies

The African American Studies Program offers students an interdisciplinary opportunity to examine the African American experience in detail. Specific requirements are listed under African American Studies.

Asian and African Studies

The Asian and African Studies minor is a broad, interdisciplinary course of study for students interested in Asian and African cultures or in careers in international business, government service, international health, or in teaching overseas. The core courses are designed to encompass a study of both Asia and Africa (except for the specific area-oriented historical surveys).

Students must take nine hours of courses from the following list that constitutes the core. At least three disciplines must be represented by the core courses. The remaining nine hours may be taken from the core courses not taken to satisfy the core requirement or from the list of optional courses. No more than nine hours may be taken from any one discipline. No more than six hours may be taken from a student's major area.

Core Courses: ENGL 2315, ENGL 2316; HIST 3330, HIST 3336, HIST 3337, HIST 3340; PHIL 3340; POLS 3336

Optional Courses: MCR 2330; ZOOL 3464; ECON 3367; HIST 3324, HIST 3331, HIST 3339; MGMT 4325; POLS 4355

Chicano Studies

The Chicano Studies minor offers students the choice of four options: Social Science, Humanities, Fine Arts, and Interdisciplinary. Specific requirements may be found under the Chicano Studies section of this Catalog.

Humanities

The minor in Humanities is offered through the Western Cultural Heritage Program. Specific requirements are listed under the Western Cultural Heritage section of this Catalog.

Inter-American Jewish Studies

A broad, flexible, interdisciplinary minor designed for undergraduates to gain an understanding of Jewish civilization and its creative and cultural experience. The minor which is non-theological in orientation, is an academic exploration of the multi-faceted, socio-historical, 4,000 year record of Jewish people. Courses taught in and cross-listed with the minor highlight the diversity of cultural, political, social, and religious experiences of Jewish people in different times and places. The minor is structured to provide an in-depth liberal arts education that will constitute a foundation for advanced academic study, professional careers in a variety of fields, and a more complex and rich understanding of the world. A key component of the minor is an examination of the rich cultural tradition of the Jewish people of Mexico and Latin America.

The Inter-American Jewish Studies Undergraduate Minor

- Complete 18 hours of advanced level courses (3300-4300) from the Inter-American Jewish Studies minor course offerings. This includes courses in Literature, Linguistics, Art, History, Philosophy, Border Studies, Religion, Music, Theater, Communication, Humanities and Western Cultural Heritage.
- In consultation with the director, students should design a proposal for a coherent course of studies.
- The proposal must be approved by the director and be on file in the office where the Inter-American Jewish Studies Minor is located in Hudspeth Hall room 214.

Jewish Studies (JS)

2300 Introduction to Jewish Studies (3-0)

An inter-disciplinary overview of the major themes, issues and contexts of Jewish studies. This course examines religious, historical, literary, sociological, and philosophical approaches to the study of the Jewish tradition. Readings may include religious texts, Bible commentary, Jewish philosophy, mysticism, Hasidism, Jewish literature, and contemporary Jewish thought. This course may be repeated for credit when the topic varies.

3300 Special Topics in Jewish Studies (3-0)

An inter-disciplinary examination of a particular theme or topic in Jewish studies. This course covers an area in Jewish studies for which no regular course is offered. The specific topic will be listed when the course is offered. This course may be repeated for credit when the topic varies.

3301 Theories in Jewish Studies (3-0)

Through the interdisciplinary perspectives of literary studies, history, sociology, and philosophy this course will survey the works of Jewish scholars and writers from antiquity to the present. This course will cover major theories of the Jewish experience from the Bible through Late Antiquity and the Middle Ages to modern and contemporary times. This course may be repeated for credit when the topic varies.

3310 Directed Study (0-0-3)

A directed program of independent readings and assignments for students who wish to investigate an area of Jewish studies not covered by regular course offerings. Under faculty supervision the student will be required to complete several short written assignments or one long, end-term research essay. This course requires the consent of the course instructor and the program director. This course may be repeated for credit when the topic varies.

Latin American and Border Studies

Minors are available in both Latin American Studies and in Border Studies; they provide a student with any other major the opportunity to take advantage of the University's rich resources in these areas. Specific requirements are listed in the Latin American Studies section.

Military Studies

The Military Studies minor is intended for students with an interest in the military as a social institution and in its policies and problems, not solely as reflected in formal military, air, or naval science instruction, but, particularly, as illuminated by the social sciences and humanities.

Students are required to complete a core course and to elect fifteen hours from among the optional courses. Not more than twelve hours of the optional courses may be selected from a single department; nor may a student elect courses from both Military Science and Aerospace Studies.

Core Course: HIST 3313

Optional Courses (15 hours): AS 3301, AS 3302, AS 4301, AS 4302; HIST 3305, HIST 3307, HIST 3308, HIST 3311, HIST 3312, HIST 3321, HIST 3324, HIST 3369, HIST 3374; MS 3301, MS 3302, MS 4301, MS 4302; POLS 3330, POLS 3332, POLS 3335, POLS 4330, POLS 4331; SOCI 3381; no more than one course from CS 1310, CS 1401, CS 1420; CIS 2315, CIS 2335, CIS 3345, or HSCI 3302.

Religious Studies

The Religious Studies minor is designed to provide an interdisciplinary framework within which students can take courses that explore the nature of religion and its impact on human culture, past and present. Courses are academic and non-sectarian in nature. Specific course listings and requirements may be found under Religious Studies.

Russian and Post-Communist Studies

The Russian and Post-Communist Studies minor is a broad, interdisciplinary plan designed to help acquaint students from any major with the Post-Soviet and East European world. It is especially recommended for students who plan advanced study in Russian and Post-Communist fields at the graduate level or who plan careers in business, education, or government agencies dealing with Russia and Post-Communist countries.

Core Courses: HIST 3332 or HIST 3333; POLS 4332 or POLS 4331; and one course chosen from RUSS 3301, RUSS 3350; ENGL 3381, ENGL 3382.

Optional Courses: HIST 2302, HIST 3369, or HIST 3374; POLS 4341; RUSS 3320; SOCI 3341; GEOG 1310.

Translation and Interpretation (Spanish/English)

The Translation and Interpretation Program is designed to provide qualified students with the opportunity to acquire skills in these fields. Translation Certificates in either Spanish or English or both will be awarded to those who pass professional level competency examinations. Consultation with the Program Coordinator is necessary for students to be admitted into the Program. Details of the Program are listed in the Languages and Linguistics section of this catalog.

Urban Studies

The Urban Studies minor is intended for students with an interest in urbanism as an institutional phenomenon and a social process. It is an appropriate supporting study for all humanities as well as social and behavioral science majors, and is particularly appropriate for students who are pursuing professions or vocations which are functionally dependent on urbanism.

Students are required to complete all three of the core courses and to elect nine hours from among the optional courses. Including both core and optional courses, no more than six hours may be taken from any one discipline.

Core Courses: ANTH 3315, POLS 3311, and SOCI 3303.

Optional Courses: POLS 3352, SOWK 3360, SOCI 3327, and, with the approval of the Urban Studies advisor, all special topics courses when the topic is related to urbanism.

Women's Studies

The Women's Studies Program provides a broad, interdisciplinary minor in which students can take course work to specialize in issues of gender and/or women. Specific requirements are listed under the Women's Studies section of this Catalog.

Special Programs

Honors

The University Honors Program, now a campus-wide endeavor involving students from all the colleges, began as a Liberal Arts Honors Program. Even today it remains most closely allied with the humanities disciplines, fostering academic excellence as well as intellectual curiosity and debate, establishing meaningful faculty-student dialogue, and building a sense of scholarly community. Honors courses, taught by outstanding faculty and limited in size, have been offered by the departments of Communication, Criminal Justice, English, History, Languages and Linguistics, Music, Philosophy, Political Science, Psychology, Sociology/Anthropology, and Theatre Arts. Moreover, History, Political Science, and Psychology offer departmental honors upon completion of an Honors thesis. Besides enrolling in courses restricted to program participants, Honors students may avail themselves of options for independent study or Honors contracts, in which special projects are carried out under faculty supervision. Through its close alliance with the University Honors Program, the College of Liberal Arts strengthens its commitment toward providing students with the satisfaction of having exercised their intellectual capabilities to the fullest.

Western Cultural Heritage

The College of Liberal Arts offers a special sequence of interdisciplinary courses that can be used to fulfill the Block requirement in the Liberal Arts General Education Requirements. Details of these courses, the creation of which was facilitated by grants from the National Endowment for the Humanities, can be found under the Western Cultural Heritage section of this Catalog.

Pre-Law

UTEP is an excellent place to prepare for law school. Law schools seek well-trained graduates from all disciplines, including sciences, math, languages, social sciences, health sciences, business, education, and liberal arts. In selecting students, law schools are less interested in a student's major than in evidence that the student has well-developed analytical skills, writing skills, and skills in critical reading. Any course or major that helps students acquire these skills is appropriate for pre-law students. For more information, students should contact a pre-law advisor.

Certificate in Legal Reasoning: This certificate program is designed to allow students, regardless of major, to become familiar with the types of reasoning, writing, and analysis that are used in the legal world. The program is valuable both for students interested in the study of legal issues and for students intending to apply to law school. The certificate program is open to and will benefit students from any college or major at UTEP. For students in the College of Liberal Arts, the program fulfills the requirement of a minor. While completion of the program is not necessary to gain entry to law school, it is designed to help students gain admittance into law school and to succeed once admitted by developing the skills that are needed for the study of the law. Students are required to complete twelve hours of core courses and six hours of electives.

Core Courses: POLS 4321 or POLS 3340, POLS 4322 or POLS 3322; ENGL 3358, ENGL 3365 (the English sections must be sections for pre-law students).

Electives: ANTH 3308; BLAW 3301, BLAW 4325; HIST 3310; PSYC 3315; and, with the approval of program advisors, appropriate special topics courses from any department.

Military Science

Military Science courses are designed to afford the student an opportunity to become a commissioned officer in the U.S. Army. These courses provide leadership training and military skills training required of an Army officer. Army ROTC is open to all male and female students in all academic majors leading to a bachelor's degree. Specific courses and requirements are listed under the departmental section for Military Science.

Aerospace Studies

The Aerospace Studies curriculum includes the Air Force ROTC education program taught at New Mexico State University, leading to a commission as second lieutenant in the Air Force. The Air Force ROTC Commissioning Program is open to all qualified male and female students in all academic majors leading to a bachelor's degree. Specific courses and requirements are listed under the departmental section for Aerospace Studies.

Undergraduate Certificate

Intelligence and National Security (18 credit hours)

The undergraduate Certificate in Intelligence and National Security will consist of 18 semester hours of study. Courses may be substituted where appropriate at the discretion of the director of the certificate program.

Certificate Admission Requirements

Any UTEP undergraduate student in good standing is eligible for enrollment in the certificate in Intelligence and National Security.

Required Courses (18 credit hours)

INSS 3301 Historical Development and Modern Practices of Intelligence and National Security

INSS 3302 Pro-Seminar in Intelligence and National Security

Politics, Economics, and History (6 credit hours)

ECON 3366 Economics of Latin America

ECON 4325 International Economy

ECON 4368 Economy of Mexico

HIST 3312 History of American Foreign Policy Since 1914

HIST 3313 American Military History

HIST 3324 The United States in Vietnam and East Asia

MS 3313 U.S. Military History

POLS 3361 International Security

POLS 4364 International Political Economy

POLS 4330 Foreign Policy of the United States

Focus Area (6 credit hours)

Students must select six credits from a focus area in consultation with appropriate faculty members. The director of the certificate program must approve the courses proposed for satisfaction of the student's focus area requirement. Students may not apply courses used for satisfying the Politics, Economics, and History component of the Certificate for satisfaction of the Focus Area requirement.

Intelligence National Security Studies (INSS)

3301 Historical Development and Modern Practices of Intelligence and National Security (3-0)

This course examines the evolution of the intelligence services in the United States and how those services have responded to various threats to national security.

3302 Pro-Seminar in Intelligence and National Security (3-0)

This course examines the scope and breadth of contemporary intelligence and national security issues. It serves as a professional overview of the field, detailing the structure and interrelationships of both private sector and government security bureaucracy. Emphasis will also be placed on understanding the role of science in security matters.



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Aerospace Studies

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CHAIRPERSON: Keith Rountree
PROFESSOR: Rountree
ASSISTANT PROFESSORS: Caranta, Onines

The college Air Force Reserve Officer Training Corps (AFROTC) curriculum provides preprofessional preparation for future Air Force officers. It is designed to motivate and prepare college men and women for their initial active duty assignments as Air Force commissioned officers. The curriculum is designed to give the student an understanding of the military instrument of national power with emphasis on the United States Air Force and how it fits into American society. Inherent in course content and methodology are opportunities for the student to develop the capacity to think creatively, speak and write effectively, and lead and manage efficiently.

The Air Force ROTC Commissioning Program is open to all qualified male and female students in all academic majors leading to a bachelor's degree. The program is also open to graduate students. The program is divided into the General Military Course (Basic Course) and the Professional Officer Course (Advanced Course).

Scholarships

Four-year Scholarships

Air Force ROTC scholarships are available annually. These scholarships are awarded on a nationally competitive basis to high school graduates. Interested high school seniors should obtain application requests from their counselors and submit the request by December. Application forms are also available at the Aerospace Studies Program.

Two and Three-Year Scholarships

These scholarships are awarded on a nationally competitive basis to college students. Students, including those not enrolled in Aerospace Studies, may apply through the Aerospace Studies Program. Contact the detachment personnel for more information on these scholarships.

One-year Scholarships

Limited one-year scholarships are available for certain high demand majors. Contact the detachment personnel for more information on these scholarships.

General Military Course (GMC)

The first two years of Air Force ROTC (AS 1121-1122 and AS 2121-2122) form the basic course known as the GMC. Basic courses are normally taken during the freshman and sophomore years. There is no military obligation associated with basic courses and they count as free elective credit. Scholarships are available for qualified students. All GMC students with Air Force ROTC scholarships must complete one English composition course prior to completion of the first two years of the program. Students may also receive a monthly study stipend from \$250-\$300 if they qualify.

Professional Officer Course (POC)

The last two years (AS 3301-3302 and 4301-4302) form the advanced course known as the Professional Officer Course (POC). The POC normally requires two academic years to complete. The two academic years can be a combination of junior-senior, senior-graduate, or all graduate years. A one-year program may be offered for specific majors. Students must be physically and mentally qualified for POC entry and have a desire to be commissioned in the Air Force. Completion of the GMC is *not* a prerequisite for the POC. Students must attend a four-week or a five-week summer orientation course. Advanced courses may be taken out of sequence. Students may also receive a monthly study stipend from \$350-\$400 if they qualify. Cadets also receive payment for the summer orientation course.

Leadership Training

This training is an integral and mandatory portion of the Aerospace Studies curriculum. Within the framework of the cadet wing, it provides a progression of experiences designed to develop each student's leadership potential and serves as an orientation to military life.

Aerospace Studies (AS)

1121 The Air Force Today I (1-1)

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and it complements this course by providing cadets with followership

experiences.

1122 The Air Force Today II (1-1)

A survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and an introduction to communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and it complements this course by providing cadets with followership experiences.

2121 The Air Force Way I (1-1)

A survey course designed to facilitate the transition from Air Force ROTC cadet to Air Force ROTC candidate. Featured topics include: Air Force heritage, Air Force leaders, Quality Air Force, an introduction to ethics and values, introduction to leadership, group leadership problems, and continuing application of communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and it complements this course by providing cadets with their first opportunity for applied leadership experiences discussed in class.

2122 The Air Force Way II (1-1)

A survey course designed to facilitate the transition from Air Force ROTC cadet to Air Force ROTC candidate. Featured topics include: Air Force heritage, Air Force leaders, Quality Air Force, an introduction to ethics and values, introduction to leadership, group leadership problems, and continuing application of communication skills. Leadership Laboratory is mandatory for Air Force ROTC cadets, and it complements this course by providing cadets with their first opportunity for applied leadership experiences discussed in class.

3301 Air Force Management and Leadership I (3-1)

A study of leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

3302 Air Force Management and Leadership II (3-1)

A study of leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

4301 Preparation for Active Duty I (3-1)

Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

4302 Preparation for Active Duty II (3-1)

Examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course.

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African American Studies

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PROFESSORS: Amastae, Ambler, Armitage, Hall, Jackson, C.E. Martin, McGee Deutsch, Staudt
ASSOCIATE PROFESSORS: Best, Dailey, Rodríguez, Weaver
ASSISTANT PROFESSORS: Haines, J.D. Marquez, C.H. Martin
STUDENT ADVISOR: J.D. Marquez
ARTIST-IN-RESIDENCE: Robert Snead

The African American Studies Program provides for individuals of all backgrounds a humanistic lens and course of study for analysis of the Black experience. Research, teaching, and related academic and social activities focus on African American history and culture and attendant complexities of "race" relations in Texas, the American southwest, the nation, and the Diaspora. The program's curriculum centers on the African American experience as it relates primarily to past, present, and future issues of (1) economic and business development; (2) leadership and service; (3) changing family structures and values; (4) gender politics; (5) the rapidly changing world of science and technology, and the importance of these issues in the local and global consciousness and behavior of African Americans and others of African descent. Students explore these issues using the interdisciplinary approach, comparative methodology, and computer literacy to acquire the critical thinking skills and knowledge for leadership, involvement in community development, preparation for graduate school, and to meet the personal and professional challenges of the 21st century.

Individuals minoring in African American Studies and mastering the subject matter acquire empowering knowledge and self-awareness with respect to race and ethnicity. They are equipped intellectually to become better citizens in their towns, cities, nations, and global communities based on their understanding and problem solving abilities when faced with the damaging and debilitating manifestations of bigotry, segregation, and other discordant "isms." Those seeking employment as teachers, ministers, engineers, scientists, musicians, athletes, aviators, scholars, public servants, social workers, filmmakers, and military personnel will find the African American Studies Program an excellent complement to their major course of study.

To earn a minor in African American Studies, students are required to complete the following core courses:

AFST 2300 Introduction to African American Studies
AFST 2301 Theories in African American Studies
AFST 3390 Topics in African American Studies

With the permission of the director of the African American Studies Program and the chair of the relevant department, the student may substitute an independent study course for "Topics in African American Studies." If the option is selected, the student is strongly encouraged to do an independent study course in some aspect of local, regional, state, national, or global history impacting on the past or present lives of African Americans or their endeavors to envision new societal changes or improvements.

The final three courses for completion of the minor may be selected from the vast variety of General Courses that are listed below, provided that at least six hours are at the upper-division (3300-4300) level. The student is urged, however, to select at least one course that will combine both the major and minor fields of study to address a pertinent and pressing praxis problem in the history of African Americans or those of African descent; their interactions with other groups (Asians, Native Americans, Hispanics, or Anglos); or a national or global aspect of contemporary "race" relations issues. The student may also earn three credits by designing a practicum course that permits him or her to do field work in the community, nation, or a foreign country using cognitive skills, comparative methodologies, or theoretical perspectives acquired while minoring in African American Studies. In addition to the core courses, students may complete the minor by selecting from upper-level courses listed below.

General Courses

College of Business Administration

Economics
ECON 3367 Economic Development

College of Education

Early Childhood Education
ECED 4353 Play Development in Early Childhood
ECED 4359 Children's Thinking in the Early Years

College of Engineering

Computer Science
CS 1310 Introduction to Computer Programming

College of Health Sciences

Nursing

- NURS 3319 Cultural Perspectives on Health Care
- NURS 3330 Contemporary Perspectives on Death and Dying

Health Science

- HSCI 2303 Wellness Dynamics
- HSCI 3304 Health Perspectives in Aging
- HSCI 3305 Substance Abuse
- HSCI 3307 Death, Dying, and Bereavement
- HSCI 4303 Family Life and Human Sexuality

Kinesiology

- KIN 1303 Foundations, History, Philosophy of Kinesiology and Sports
- KIN 3318 Growth, Maturation, Health, Motor, Behavior, and Movement Experiences in Early Childhood

College of Liberal Arts

Aerospace Studies

- AS 3301 Air Force Management and Leadership I
- AS 3302 Air Force Management and Leadership II

Art

- ARTH 3308 Border and Visual Cultural

Chicano Studies

- CHIC 2301 Chicano Studies and Analysis
- CHIC 3330 Youth at Risk in the U.S.: Cultural Factors

Communication

- COMM 1301 Public Speaking
- COMM 1304 Mass Media and Society
- COMM 2352 Persuasion and Social Influence
- COMM 3350 Advanced Interpersonal Communication
- COMM 3355 Organizational Communication
- COMM 4352 Contemporary Rhetoric

Criminal Justice

- CRIJ 1301 Introduction to Criminal Justice
- CRIJ 3308 Juvenile Justice
- CRIJ 3313 Crime in America

English

- ENGL 3315 African American Literature
- ENGL 3360 Women in Literature
- ENGL 4340 Advanced Literary Studies (Maybe counted when the topic is relevant)

History

- HIST 3309 Mexican American History
- HIST 3313 American Military History
- HIST 3316 Southwest Frontier
- HIST 3323 American Indian History
- HIST 3325 History of Immigration and Ethnicity in the United States
- HIST 3327 Racial Thought in U.S. History
- HIST 3337 Modern Africa
- HIST 3339 Pyramids and Prophets: Ancient Egypt, Mesopotamia, and Palestine
- HIST 3346 Central America and the Caribbean

Languages and Linguistics

- LING 2320 An Introduction to Linguistics
LING 3357 Sociolinguistics

Music

- MUSE 1327 Jazz to Rock
MUSE 2217 Jazz Improvisation

Philosophy

- PHIL 2306 Ethics: Critical Appraisal of Human Conduct and Motivation
PHIL 3313 American Philosophers: Pierce, James, and Dewey
PHIL 3325 Social Philosophy

Political Science

- POLS 3314 Ethnicity and Race in American Politics Civil Rights and Liberties
POLS 3321 Civil Rights and Liberties
POLS 3336 Third World Politics
POLS 4336 Caribbean and Central American Politics

Psychology

- PSYC 2302 Social Psychology
PSYC 2305 Psychology of Human Sexuality

Religion

- RS 3310 Major World Religions

Social Work

- SOWK 2310 Introduction to Social Work and Social Welfare
SOWK 3345 Social Work and the Aging: A Cross Cultural Perspective
SOWK 3346 The Process of Addiction: A Cross-Cultural Perspective

Sociology and Anthropology

- SOCI 3306 Cultural Diversity
SOCI 3327 Majority/Minority Relations in the United States

Theatre Arts

- THEA 3335 Chicano Theatre and Drama
THEA 3391 African American Film Makers

Women's Studies

- WS 2300 Introduction to Women's Studies

College of Science

Science

- SCI 1401 Explanatory Power of Science
SCI 1402 Science in the Modern World

Biology

- BIOL 1303 Introductory Biology
BIOL 1304 Human Biology

Geology

- GEOL 1310 Cultural Geography

African American Studies (AFST)

2300 Introduction to African American Studies (3-0)

A historical survey of the African American Experience from its origins in African culture to the present. Major themes include the African heritage, middle passage, slavery, segregation, second class citizenship, survival skills, gender politics, and their impact on the enduring black community.

2301 Theories in African American Studies (3-0)

A survey of major theories of the African American Experience as seen through the works of African American scholars and writers from the 19th century to the present. Authors studied range from Carter G. Woodson, Anna J. Cooper, and W.E.B. Du Bois to current Afrocentric intellectuals bell hooks, Mblefe Asante, Cornell West, and Henry L. Gates.

3390 Topics in African American Studies

An examination of a currently relevant subject from the perspective of African American Studies. Topics will vary and will be drawn from the Social Sciences, Humanities, Fine Arts, Science and Technology, and Education. May be repeated for credit when topic varies.

4304 Environmental Justice and Minority Communities in the U.S. (3-0)

An examination of environmental justice issues in the U.S., with an emphasis on communities, agencies and efforts that address sustainable development in the U.S.-Mexico border region. The underpinnings of the environmental justice movement in the U.S. and the regional policy formulation and practice implications for these communities will be central to the course. The course may require field trips. (AFST 4304 is the same course as CHIC 4304; SOCI 4304; ANTH 4304; and POLS 4304.)



Text/HTML

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Art

350 Fox Fine Arts
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CHAIRPERSON: Gregory M. Elliott
PROFESSOR EMERITUS: Clarke Gamsay
PROFESSORS: Elliott, Fensch, Parish, Thiewes
ASSOCIATE PROFESSOR EMERITI: John Arnold, Sally Segal
ASSOCIATE PROFESSORS: Bauer, Burke, Quinnan, Wong
ASSISTANT PROFESSORS: Bonansinga, Giangulio
GALLERY DIRECTOR: Kate Bonansinga
LECTURERS: Bauer, Dunn, Hendrick, Jaquez, Perry

Department of Art Mission Statement:

The Department of Art is dedicated to providing the highest quality education, professional presentation, and production in the Visual Arts. The Department will honor, maintain, and develop the traditions, history, and techniques of the Visual Arts with the purpose of contributing to the development of the contemporary state of the Arts for the University and the community at large.

Department of Art Description:

The Department of Art offers a comprehensive program in the visual arts. Degrees awarded include the Bachelor of Fine Arts (BFA), the Bachelor of Arts (BA), and the Bachelor of Arts with All-Levels Teacher Certification. Students may choose majors in the following areas: Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, and Sculpture. Studio Art and Art History minors are available to Liberal Arts BA and BFA students.

The Department of Art, located in the Fox Fine Arts Center and in Seamon Hall, has more than 30 professionally equipped studios. The Department's facilities, including the Digital Arts studio; the Glass Gallery; and the Stanlee and Gerald Ruben Center for the Visual Arts, which includes three galleries and the Departmental lecture hall, are among the finest in the Southwest.

UTEP Art students have the opportunity to pursue studies in a rich and diverse curriculum comprised of advanced technologies, contemporary art practice, theory and criticism, and traditional crafts. With programs taught by distinguished faculty in art education, art history, ceramics, drawing, graphic design, metals, painting, printmaking, and sculpture, our students can explore a personal vision through virtually any medium via these nine disciplines.

The suggested class schedule for freshmen art majors is as follows:

First Semester: ARTF 1301 Basic Design I, ARTF 1302 Basic Drawing I, and ARTH 1305 History of World Art I, along with 3 to 6 additional credits required under the chosen degree plan.

Second Semester: ARTF 1303 Basic Design II, ARTF 1304 Basic Drawing II, and ARTH 1306 History of World Art II, along with 3 to 6 additional credits required under the chosen degree plan.

Bachelor of Fine Arts (a minimum of 120 semester hours)

University Core Requirements (42 hours, with a minimum of "C" in each course)

Composition (6 hours) and Oral Communication (3 hours)

ENGL 1311*, ENGL 1312, or ENGL 1313; or ESOL 1311 and ESOL 1312

COMM 1301 or COMM 1302*

*ENGL 1611 or COMM 1611 may be substituted for ENGL 1311 and COMM 1301/1302.

Mathematics (minimum 3 hours)

MATH 1319 or MATH 1320 or MATH 1508

Natural Science (minimum 6 hours)

Students select a sequence of 6 hours (plus labs, if indicated). Students should refer to the University Core Curriculum section of this Catalog for options.

Humanities (3 hours)

Students should refer to the University Core Curriculum section of this Catalog for options.

Visual and Performing Arts (3 hours)

Either ARTH 1305 or ARTH 1306 can be used to fulfill this requirement.

United States History (6 hours)

HIST 1301 and HIST 1302

Political Science (6 hours)

POLS 2310 and POLS 2311

Social/Behavioral Science (3 hours)

Students should refer to the University Core Curriculum section of this Catalog for options.

Institutionally Designated Option (3 hours)

UNIV 1301 or UNIV 2350. Students should refer to the University Core Curriculum section of this Catalog for options.

Additional General Education requirement for students whose post-primary education was in a language other than English: ESOL 2303

Art Foundations (48 hours)

ARTF 1301, ARTF 1302, ARTF 1303, ARTF 1304, ART 3306 or ARTF 3315; ARTH 1305, ARTH 1306 (either ARTH 1305 or ARTH 1306 also meets the Visual and Performing Arts requirement above), ARTH 2303 or 2313, plus 3 hours upper-division Art History; ARTG 2306; CERM2304; DRAW 2308; MTL 2303; PNTG 2301; PRNT 2305; and SCUL 2302.

Major Art Area (21 hours)

To be selected from one of the following: Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, or Sculpture; 18 hours must be upper-division. (Courses required under Art Foundations cannot be applied to the major or minor art areas.)

Minor Art Area (12 hours)

Selected from one of the following other than the major area: Art Education*, Art History, Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, or Sculpture. Nine hours must be upper-division. (Courses required under Art Foundations cannot be counted again in the Minor Art Area.)

*Art Education as a minor in a BFA program will not complete all levels certification as part of the Degree. Art Education as a minor in a BFA program requires the following courses: ARTE 3307, ARTE 3327, ARTE 4347, and SCED 3311.

Electives

Completed, if necessary to bring the total to 120 credit hours.

Bachelor of Arts (120 semester hours)

The Bachelor of Arts degree with a major in Art may be earned by completing the following, for a total of 120 semester hours.

University Core Curriculum (42 hours)

Students should refer to the University Core Curriculum section of this Catalog.

Liberal Arts General Education Requirements (18 hours)

6 hours of language or linguistics required plus 12 hours spread across all 3 blocks including Visual and Performing Arts, Humanities, and Social and Behavioral Sciences with a limit of 6 credit hours in any one block.

6 hour language or linguistics requirement defined:

Language 2301* and 2302 (non-native speaker) or

Language 2303* and 2304 (native speaker) or

Linguistics 2303 and 2304

* Prerequisite-completion of 1301 and 1302 or placement by examination.

Liberal Arts Blocks (12 credit hours required) defined only as they apply to the BA Degree in Art. All courses must be 3000+ level to fulfill this requirement.

Instructions:

- At least 3 credit hours must be taken from each block.
- One additional 3 credit-hour course may be selected from any one of the 3 blocks.
- Courses used for credit in the Major, Minor, and University Core may not be used towards this degree requirement.

Block 1: Fine and Performing Arts choose from:

Dance, Music, Theatre Arts and Film, and Directed Studies (when topic is appropriate).

Block 2: Humanities choose from:

English, History (MS 3313), Languages and Linguistics, Military Science History, Philosophy, Western Cultural Heritage, and Directed Studies (when topic is appropriate).

Block 3: Social and Behavioral Sciences choose from:

Anthropology, Communication, Criminal Justice, Political Science, Sociology, Social Work, Psychology, and Directed Studies (when topic is appropriate)

Art Foundations (21 hours)

ARTF 1301, ARTF 1302, ARTF 1303, and ARTF 1304; ARTH 1305*, ARTH 1306*; DRAW2308

*ARTH 1305 or ARTH 1306 may be used to fulfill the Visual and Performing Arts requirement in the University Core Curriculum and the Liberal Arts General Education requirement in Fine Arts.

Major Area (24 hours)

To be selected from one or two of the following: Ceramics, Drawing, Graphic Design, Metals, Painting, Printmaking, or Sculpture. 21 credit hours in chosen studio area, 15 credit hours of which must be upper-division (3300+), plus ART 3306 Professional Art Practices. Courses required under Art Foundations cannot be counted again in the Major Area.

Minor Area (18 hours)

May be selected from Art History or a non-art minor area as described in the Liberal Arts introductory section; 9 hours must be upper-division. Courses required under Art Foundations, such as ARTH 1305 and ARTH 1306 cannot be counted again in the Minor Area.

Art History Minor for the Bachelor of Arts with a major in Art: ARTH 2303, 2313, plus 9 hours of 3300+ ARTH and 3 hours of 4300+ ARTH.

Electives

Completed, if necessary, to bring the total to a minimum of 120 credit hours.

Bachelor of Arts with All-Levels Teacher Certification

(a minimum of 120 semester hours)

A Bachelor of Arts degree with all-levels teaching certification allows students to major in Art and minor in Professional Education. This degree plan is exempt from the College of Liberal Arts General Education Requirements. Students pursuing this degree take additional requirements defined by the College of Education to complete All-Levels Teaching Certification. To complete this degree, students must fulfill the following:

University Core Curriculum (42 hours)

Students should refer to the University Core Curriculum section of this Catalog.

Additional English Requirements (3 hours)

3 credit hours of English 3300+

Art Foundations (18 hours)

ARTF 1301, ARTF 1302, ARTF 1303, ARTF 1304, ARTH 1305, ARTH 1306 (Either of the two Art History courses fulfills the University Core Curriculum requirements in Visual and Performing Arts.)

Art Major Field (42 hours)

ARTG 2306; CERM2304; DRAW2308; MTL5 2303; PNTG 2301; PRNT 2305; SCUL 2302; ARTF 3315 or ART 3306; ARTH 2303 or 2313, plus 3 hours upper-division Art History; ARTE 3307, ARTE 3337, ARTE 4347, and RED 3342.

Minor Area: Education All Levels Teacher Certification (18 hours)

Courses required for the minor include: EDPC 3300; SCED 3317; SCED 3311; ARTE 4347; TED 4696. The final semester is an internship semester during which the following two courses, which require extensive fieldwork, must be taken concurrently: SCED 3317 (3 credit hours) and SCED 4696 (6 credit hours). The internship semester requires students to be in the public schools all day, everyday. Thus there is not time for students to take other classes during the hours of 7:30 a.m. to 4:30 p.m. Monday through Friday. Careful planning and scheduling of classes throughout the degree progression is essential in order to plan for this final semester.

Electives

Completed, as necessary, to bring total to 120 credit hours.

Students should refer to the catalog section for the College of Education and contact the College of Education regarding requirements and procedures for admission to Professional Education courses.

Minor Degree Plans for Non-Art Majors

The Department of Art also offers Liberal Arts majors the opportunity to seek a minor in Studio Art or Art History.

Art History (18 hours)

ARTH 1305, ARTH 1306, and ARTH 2303 or ARTH 2313, plus 9 hours of upper-division (3300+) courses in Art History.

Ceramics (21 hours)

ARTF 1303*, ARTH 1306; CERM2304, CERM2314, CERM3304, CERM3314, and CERM3324

* Students electing this minor must seek a prerequisite waiver from the Art Department for this course.

Drawing (21 hours)

ARTF 1302 and ARTF 1304; DRAW 2308, DRAW 2318, DRAW 3318, DRAW 3328 and DRAW 3338.

Graphic Design (24 hours)

ARTF 1301, ARTF 1302, and ARTF 1304; ARTG 2306, ARTG 2326, ARTG 3316, ARTG 3326 and ARTG 4306

Metals (18 hours)

ARTF 1303*; MTL 2303, MTL 2313, MTL 3303, MTL 3313, and MTL 3323

* Students electing this minor must seek a prerequisite waiver from the Art Department for this course

Painting (21 hours)

ARTH 1306, ARTH 2313; PTNG 2301, PTNG 2331, PNTG 3301, PTNG 3331, and PTNG 3341.

Printmaking (21 hours)

ARTF 1302 and ARTF 1304; PRNT 2305, PRNT 2325, PRNT 3305, PRNT 3325, and PRNT 3335

Sculpture (18 hours)

ARTF 1303*; SCUL 2302, SCUL 3302, SCUL 3332, SCUL 3342, and SCUL 4302

* Students electing this minor must seek a prerequisite waiver from the Art Department.

General Courses (ART)

General Prerequisite: Junior standing for all 3300 and 4300-level courses.

1300 Art Appreciation (non-majors) (3-0)

(*) ARTS 1301

A course, with images and text, designed to give the general university student an introductory understanding of the broad range of issues comprising the visual arts. This course can be used to fulfill a University Core requirement. Course fee required.

3300 Art Exploration (3-0)

The focus of this course is to provide an expanded experience in visual art for the non-art major. The course will include a full schedule of lectures plus required attendance with interpretation/evaluation of defined visual art events within our local area. This course can be used to fulfill the College of Liberal Arts general education requirement for Fine and Performing Arts. Course fee required.

3306 Professional Art Practices (0-6)

The focus of this course is to develop the necessary skills to survive as a professional studio artist in the art world. This course is for art students that have completed all foundation level studio courses and several courses in their major area of studio art study. This course with the addition of ART 3308 and ART 3309 will fulfill requirements necessary for the award of a certificate of completion in Exhibition Practices. This course may be used to fulfill degree plan requirements calling for ARTF 3315. Restricted to Art Majors only. Course fee required.

3307 Special Topics in Art (3-0) or (0-6)

Lecture or studio art course on topic not included in regular curriculum. May be repeated for credit when topic varies. *Prerequisite:* Department approval. When the topic is in studio art, an appropriate fee will be assessed.

3308 Exhibition Practices I (3-0)

This course examines current approaches to exhibiting art. Readings and discussions about how exhibitions shape knowledge comprise the beginning of the course. In the second part of the course this theory informs the practice of researching, planning for, mounting, marketing and documenting exhibitions. Students observe and participate in the day-to-day operations of the Stanlee and Gerald Rubin Center for the Visual Arts, and gain a working knowledge of gallery operations and management. Contemporary fine art exhibitions are emphasized, though exhibitions of historical work are also discussed. This course with the addition of ART 3306 and ART 3309 will fulfill requirements necessary for the award of a certificate of completion in Exhibition Practices. This course can be used to fulfill the College of Liberal Arts general education requirement for Fine and Performing Arts. Course fee required.

3309 Exhibition Practices II (0-6)

This course is an internship-style learning experience at the Stanlee and Gerald Rubin Center for the Visual Arts or another museum that builds upon the expertise and skills developed in ART 3308 /Exhibition Practices I. For nine hours each week the student will experience first hand the working environment of a museum under the supervision of a qualified professional. Tasks may range from researching specific objects or ideas, to greeting visitors, to writing educational exhibition labels, to interviewing artists and scholars, to installing exhibitions. Completion of this course and Art 3306 and ART 3308 will fulfill requirements necessary for the award of a certificate of completion in Exhibition Practices. This course can be used to fulfill the College of Liberal Arts general education requirement for Fine and Performing Arts. *Prerequisite:* ART 3308 with a grade of "C" or better. Course fee required.

3339 Special Studies (0-6)

Special course work in new or experimental offerings for which there is immediate need and for which special resources and faculty are available. May be repeated for credit for varied subject matter. *Prerequisite:* Department approval required.

See the *Graduate Catalog* for graduate programs and courses.

Art Education (ARTE)

3307 Introduction to Art Education (3-0)

This is a foundation course for Art Education Majors and for students seeking to teach art as a second teaching field. This course will examine the field of Art Education: its literature, history, trends, theories, and philosophies. The course will also include the study of children's artistic, creative, and aesthetic growth and development. This course can be used to fulfill the College of Liberal Arts, Fine and Performing general education requirements. Course fee required.

3337 Studio Projects and Practices for Art Education (3-0)

This course presents early childhood, elementary, middle school and high school lesson planning and studio classroom applications for art education. This course focuses on studio projects and general issues of design, elements of art, materials and processes as they relate to the applications of all levels of Art Education. This course can be used to fulfill the College of Liberal Arts, Fine and Performing general education requirements. ARTE 3337 may be taken concurrently with ARTE 4347. Course fee required.

4347 Methods of Teaching Art (2-2)

A survey of the methods and practices involved in the effective and creative approach to Art Education. Special emphasis is placed on demonstration techniques and opportunities to teach as a part of a group and on an individual basis. Each student will observe in both elementary and secondary art classrooms. This course must be taken prior to student teaching. *Prerequisites:* ARTE 3307 and ARTE 3337. ARTE 3337 may be taken concurrently with ARTE 4347. Course fee required.

Basic Studies (ARTF)

1301 Basic Design I (0-6)

(👉 ARTS 1311)

A study of the basic visual elements and materials of two-dimensional design, including value, color, space, and their dynamics. Should be taken concurrently with ARTF 1302. Six hours of studio per week. Laboratory fee required.

1302 Basic Drawing I (0-6)

(👉 ARTS 1316)

Emphasis on basic aesthetic and technical drawing skills including proportion, scale, and the control of illusionistic space, along with compositional structure and effectiveness. Both line and value are explored. Should be taken concurrently with ARTF 1301. Six hours in studio per week. Laboratory fee required.

1303 Basic Design II (0-6)

(👉 ARTS 1312)

An exploration of the elements of three-dimensional design involving both aesthetic and structural principles. Students will develop projects with a variety of materials and concepts to be determined by the instructor. *Prerequisites:* ARTF 1301 and ARTF 1302. ARTF 1304 should be taken concurrently with ARTF 1303. Laboratory fee required.

1304 Basic Drawing II (0-6)

(👉 ARTS 1317)

A continuation of basic drawing aesthetics and skills, with added emphasis on composition and content. Images from both imaginary and historically based sources are investigated. Six hours in studio per week. *Prerequisite:* ARTF 1302. ARTF 1303 should be taken concurrently with ARTF 1304. Laboratory fee required.

3315 Advanced Design (0-6)

In-depth study of the fundamental elements and principles of two and three-dimensional design. Emphasis on individual direction and self-expression. *Prerequisite:* Junior standing. Laboratory fee required.

Graphic Design (ARTG)

2306 Graphic Design 1: Computer Graphics (0-6)

(👉 ARTS 2331)

(previously ARTG 1306, Special Topics) This is an introduction to graphic, illustration and page layout software on Macintosh computers. Students scan, generate, import, process, and combine images and text in black and white and in color. Industry standard desktop publishing software and imaging programs are used. Recommended to be taken in the sophomore year. *Prerequisites:* ARTF 1301, ARTF 1302, and ARTF 1304 each with a grade of "C" or better. ARTG 2306 may be taken concurrently with ARTG 2326. Laboratory fee required.

2326 Graphic Design 2 (0-6)

(👉 ARTS 2332)

(previously Graphic Design 1: ARTG 2306) Students will explore the fundamental principles of design as applied to graphic communication Introduction to basic terminology, tools and media. Major topics covered are letter form, typographic design, and symbol identification. *Prerequisites:* ARTF 1301, ARTF 1302 and ARTF 1304 each with a grade of "C" or better. ARTG 2326 may be taken concurrently with ARTG 2306 Graphic Design 1. Laboratory fee required.

3316 Graphic Design 3 (0-6)

(previously ARTG 3306 Graphic Design III) This is a further investigation of effective visual communication with emphasis on problem solving and conceptual development. *Prerequisites:* ARTG 2306 and ARTG 2326 each with a grade of "C" or better. Laboratory fee required.

3326 Graphic Design 4: Typography (0-6)

This is a further investigation of effective visual communication with emphasis on typographic problems and page layout. *Prerequisite:* ARTG 3316 with a grade of "C" or better. Laboratory fee required.

4306 Graphic Design 5 (0-6)

This advanced communication course emphasizes design expression and conceptual approaches to solving graphic communication problems. *Prerequisite:* ARTG 3326 with a grade of "C" or better. Laboratory fee required.

4316 Graphic Design 6: Practicum (0-6)*

This course provides practical information regarding various technical problems faced by the graphic designer in the preparation of artwork for reproduction. Topics include printing methods, layout formats, and client interaction. *Prerequisite:* ARTG 3326 with a grade of "C" or better. Laboratory fee required.

4326 Graphic Design 7: Illustration (0-6)*

The course explores contemporary directions in illustration and experiments with various drawing and painting media and techniques in the discipline. *Prerequisites:* ARTG 3326 and DRAW 2308 each with a grade of "C" or better. Laboratory fee required.

4336 Graphic Design 8: Interactive (0-6)*

This course enables students to begin designing for the world wide web. While staying current with the latest technologies, the emphasis will be on communication through interactive design. *Prerequisite:* ARTG 3326 with a grade of "C" or better. Laboratory fee required.

4346 Graphic Design 9: Portfolio (0-6)

This advanced communication course emphasizes design expression and conceptual approaches to solving graphic communication problems. This course also gives the student guidance to organize a professional portfolio for presentation. Discussion topics include resume, interviews, and presentation. *Prerequisite:* ARTG 4306 with a grade of "C" or better. Laboratory fee required.

4356 Internship (0-6)

Upon the recommendation of the instructor, the student may be placed in a design firm, art studio, television station, or an advertising agency. This opportunity provides the student with actual work experience in a professional setting. *Prerequisites:* 18 hours in Graphic Design, a minimum GPA of 3.0 in Graphic Design and instructor's approval. Laboratory fee required.

4366 Independent Study (0-6)

Upon the recommendation of the instructor, the advanced, disciplined and self-motivated student may work independently on a design project(s) of the student's choice with faculty supervision. *Prerequisites:* 18 hours in Graphic Design, a minimum GPA of 3.0 in Graphic Design and instructor's approval. Laboratory fee required.

* These three courses (Graphic Design 6, 7, and 8) are part of the new Graphic Design elective curriculum. BFA Graphic Design majors are required to take two of these three electives as part of their degree plan. BA students are required to take one of these electives as part of their degree plan. None of these electives are required of Graphic Design minors. Elective classes may be taken concurrently with each other and/or with Graphic Design 9.

See the *Graduate Catalog* for graduate programs and courses.

History of Art (ARTH)**1305 History of World ART I (3-0)****(3320 Whole Arts (2-2)**

An interarts experience that addresses Texas State requirements in the arts for classroom teachers EC-4. The course explores major themes from the visual and performing arts and uncovers arts tools, methods and resources for teaching and learning. The themes are presented in lectures, activities and interviews. Creative laboratory sections are held on and off campus. *Prerequisite:* Junior standing required. Course fee required.

See the *Graduate Catalog* for graduate programs and courses.

Ceramics (CERM)**2304 Ceramics I (0-6)****(ARTS 2346)**

Exploring the design principles in the clay media, with major emphasis on hand building in stoneware; an introduction to potter's wheel techniques and glaze theory and application. Six hours in studio per week. *Prerequisites:* (1) ARTF 1301, ARTF 1302, ARTF 1303, and ARTF 1304, each with a grade of "C" or better, or (2) instructor approval. CERM2304 may be taken concurrently with ARTF 1303 and ARTF 1304. Laboratory fee required.

2314 Ceramics II (0-6)

( ARTS 2347)

Stressing wheel production for throwing techniques. Emphasis toward increasing the student's proficiency, control, and aesthetic development. Kiln firing. Six hours in studio per week. *Prerequisite:* CERM2304 or instructor approval. Laboratory fee required.

3304 Ceramics III (0-6)

Continuation of Ceramics II with emphasis on exploration of utilitarian form and surface treatment in series with further investigation of glaze materials and techniques. Six hours in studio per week. *Prerequisite:* CERM2314 or instructor approval. Laboratory fee required.

3314 Ceramics IV (0-6)

Continuation of Ceramics III with concentration on designing and fabrication of related functional forms. Six hours in studio per week. *Prerequisite:* CERM2314 or instructor approval. Laboratory fee required.

3324 Ceramics V (0-6)

Exploration of clay from the non-utilitarian aspects, stressing sculptural relationship of joined forms, both thrown and hand built. Research into clay and clay bodies. Six hours in studio per week. *Prerequisites:* CERM3314 or instructor approval. Laboratory fee required.

4304 Ceramics VI (0-6)

Continuation of Ceramics V. Six hours in studio per week. *Prerequisite:* CERM3314 or instructor approval. Course fees required.

4314 Ceramics VII (0-6)

Emphasis upon individual direction and achievement. *Prerequisites:* CERM3314 or instructor approval. Course fees required.

4324 Special Problems in Ceramics (0-6)

Emphasis upon individual direction and achievement in ceramics. May be repeated for credit when problem varies. *Prerequisite:* CERM3314 or instructor approval. Course fees required.

See the *Graduate Catalog* for graduate programs and courses.

Drawing (DRAW)

2308 Advanced Drawing I: Life Drawing I (0-6)

(ARTS 2323)

Study and drawing of the human figure from life, with emphasis on achieving correct form and proportions. *Prerequisites:* ARTF 1301, ARTF 1302, and ARTF1304. Laboratory fee required.

2318 Advanced Drawing II: Figure/Concept/Expression (0-6)

(ARTS 2324)

Continued study of the human form along with other subjects. In addition to further concentration on accurate rendering, emphasis will also be given to expressive use of media, form, and content. *Prerequisite:* DRAW 2308 or instructor approval. Laboratory fee required.

3318 Advanced Drawing III (0-6)

Exploration of drawing as an independent discipline, focusing on the relation between form and content. Experimentation of medium and process will be encouraged. Students will study the history and contemporary field of drawing while beginning to develop a personal sense of imagery. *Prerequisite:* DRAW 2318 or instructor approval. Laboratory fee required.

3328 Advanced Drawing IV (0-6)

Further experimentation of drawing media and process with continued development of a personal sense of imagery. Emphasis will also be given to improving the analytical skills required to critique artworks. Continued study of issues and artists important to the field of drawing. *Prerequisite:* DRAW 3318 or instructor approval. Laboratory fee required.

3338 Advanced Drawing V (0-6)

Continuation of Advanced Drawing IV with greater emphasis placed on development of personal imagery through the exploration of a focused theme and through effective critiquing skills. Continued study and awareness of the contemporary drawing discipline. *Prerequisite:* DRAW 3328. Laboratory fee required.

4308 Advanced Drawing VI (0-6)

Continuation of Advanced Drawing V, with emphasis given to creating a consistent body of work that addresses the personal concerns and interests of the student with an awareness of contemporary issues in art. *Prerequisite:* DRAW 3328. Laboratory fee required.

4318 Advanced Drawing VII (0-6)

Continuation of Advanced Drawing VI, with added emphasis on the development of a consistent body of work exhibiting a high level of achievement. *Prerequisite:* DRAW 3328. Laboratory fee required.

4328 Special Problems in Drawing (0-6)

Development of a consistent body of work that could constitute an exhibition. Course may be repeated for credit if the topic varies. *Prerequisite:* DRAW 3328. Laboratory fee required.

See the *Graduate Catalog* for graduate programs and courses.

Metals (MTLS)

2303 Metals I (0-6)

( ARTS 2341)

An examination of several basic metal techniques—sawing, soldering, forming, cold connections, and surface finishes. Six hours in studio per week. *Prerequisites:* (1) ARTF 1301, ARTF1302, ARTF1303, and ARTF1304 or (2) instructor approval. MTLS 2303 may be taken concurrently with ARTF 1303 and ARTF 1304. Laboratory fee required.

2313 Metals II (0-6)

( ARTS 2342)

Exploration of forging and hollow construction techniques first half of semester. Last six weeks will cover the basics of lost wax casting with various metal alloys. Six hours in studio per week. *Prerequisites:* MTLS 2303 and ARTF 1304. Laboratory fee required.

3303 Metals III (0-6)

Concentrated work on metal construction techniques including marriage of metals, hammer inlay, mokume, and mechanisms. Six hours in studio per week. *Prerequisite:* MTLS 2313. Laboratory fee required.

3313 Metals IV (0-6)

Continuation of Metals III with emphasis on the die-forming, repousse, and chasing. Six hours in studio per week. *Prerequisite:* MTLS 3303. Laboratory fee required.

3323 Metals V (0-6)

Concentration on various forming techniques, angle raising, shell forming and construction, and work on series problem. Six hours in studio per week. *Prerequisite:* MTLS 3313. Laboratory fee required.

4303 Metals VI (0-6)

Emphasis on advanced metal design with individual investigation. Six hours in studio per week. *Prerequisite:* MTLS 3313. Course fees required.

4313 Metals VII (0-6)

Emphasis upon individual direction and achievement. Minimum of six hours in studio per week. *Prerequisite:* MTLS 3313. Course fees required.

4323 Special Problems in Metals (0-6)

Emphasis on individual direction and achievement. Minimum of six hours in studio per week. May be repeated for credit if problems vary. *Prerequisite:* MTLS 3313. Course fees required.

See the *Graduate Catalog* for graduate programs and courses.

Painting (PNTG)

2301 Painting I (0-6)

( ARTS 2316)

Painting in oil, with a concentration in developing color perception, exploring color theory, technical manipulation of media, and beginning to explore personal statements. *Prerequisites:* ARTF 1301, ARTF 1302, ARTF 1303, ARTF 1304, or instructor approval. ARTF 1303 and ARTF 1304 may be taken concurrently with PNTG 2301. Laboratory fee required.

2331 Painting II (0-6)

( ARTS 2317)

Concentration on the issues of the interrelatedness of form and content while beginning to explore contemporary concerns and developing the analytical skills to criticize artworks. Students are encouraged to explore various media. *Prerequisite:* PNTG 2301. Laboratory fee required.

3301 Painting III (0-6)

Continuation of Painting II with an emphasis on developing a personal visual vocabulary while continuing the exploration of contemporary concerns and analytical skills. *Prerequisite:* PNTG 2331. Laboratory fee required.

3331 Painting IV (0-6)

Continuation of Painting III with further emphasis upon development of a personal visual vocabulary and researching a paper on contemporary issues to be presented to the class. *Prerequisite:* PNTG 3301. Laboratory fee required.

3341 Painting V (0-6)

Continuation of Painting IV with added emphasis upon individual direction and achievement. *Prerequisite:* PNTG 3331. Laboratory fee required.

4301 Painting VI (0-6)

Continuation of Painting V with emphasis upon the refinement of concepts and the encouragement of exploratory techniques. *Prerequisite:* PNTG 3331. Laboratory fee required.

4331 Painting VII (0-6)

Continuation of Painting VI with emphasis upon the development of a consistent body of work that could constitute an exhibition. *Prerequisite:* PNTG 3331. Course fees required.

4341 Special Problems in Painting (0-6)

Emphasis on individual direction and achievement in painting. May be repeated for credit when problem varies. *Prerequisite:* PNTG 3331. Course fees required.

See the *Graduate Catalog* for graduate programs and courses.

Printmaking (PRNT)

2305 Printmaking I (0-6)

( ARTS 2333)

An introductory course focusing on the basics of relief, intaglio, and stone lithographic printmaking techniques, the terminology, and a brief history of these processes. Students will be encouraged to develop personal original imagery to execute in these media. Course will include a brief demonstration of screen techniques. A minimum of six hours in studio per week. *Prerequisites:* ARTF 1301, ARTF 1302, and ARTF 1304. ARTF 1304 may be taken concurrently with PRNT 2305. Laboratory fee required.

2325 Printmaking II (0-6)

( ARTS 2334)

Continuation of processes presented in Printmaking I with the addition of at least one multi-color print. Exploration of additional print processes including: chine colle, monoprints, monotypes. Possible exploration of screen processes including photoscreen. Personal original imagery further developed. A minimum of six hours in studio per week. *Prerequisite:* PRNT 2305. Laboratory fee required.

3305 Printmaking III (0-6)

Continued exploration of previous print processes with introduction of collographic print techniques and the photographic gum bichromate process. Aluminum plate lithography may also be explored. Emphasis on the production of like multiples and the development of solid drawing skills and personal imagery. A minimum of six hours in studio per week. *Prerequisite:* PRNT 2325. Laboratory fee required.

3325 Printmaking IV (0-6)

Combining two or more print processes into a single image will be explored along with a continuation of the student's personal imagery in chosen print media. Papermaking will also be explored. A minimum of six hours in studio per week. *Prerequisite:* PRNT 3305. Laboratory fee required.

3335 Printmaking V (0-6)

Choice and execution of best print media for student's imagery. Strong personal image and technical development expected. A minimum of six hours in studio per week. *Prerequisite:* PRNT 3325. Laboratory fee required.

4305 Printmaking VI (0-6)

Emphasis upon further technical development, image, and concept. A minimum of six hours in studio per week. *Prerequisite:* PRNT 3325. Course fees required.

4325 Printmaking VII (0-6)

A continuation of PRNT VI further refining and exploring techniques, images, and concepts. A minimum of six hours in studio per week. *Prerequisite:* PRNT 3325. Course fees required.

4335 Special Problems in Printmaking (0-6)

Emphasis upon individual course of study developed jointly between the instructor and the student or specialized Summer program offering. Written proposal may be required. A minimum of six hours in studio per week. May be repeated for credit when problem varies. *Prerequisite:* PRNT 3325 or instructor approval. Course fees required.

See the *Graduate Catalog* for graduate programs and courses.

Sculpture (SCUL)

2302 Sculpture I (0-6)

( ARTS 2326)

An introduction to basic sculptural concepts and materials with emphasis on simple manipulation of wood, steel, and found objects. Six hours in studio per week. *Prerequisites:* ARTF 1301, ARTF 1302, and ARTF 1303. ARTF 1303 may be taken concurrently with SCUL 2302. Laboratory fee required.

2332 Sculpture II (0-6)

( ARTS 2327)

Continued exploration of Sculptural concepts through the use of combining traditional sculptural materials. Six hours in studio per week. *Prerequisite:* SCUL 2302 with a grade of "C" or better, or instructor approval. Laboratory fee required.

3302 Sculpture III (0-6)

Sculptural fabrication through the manipulation of steel. To include steel cutting, forging, welding, and safety procedures. Six hours in studio per week. *Prerequisite:* SCUL 2302 with a grade of "C" or better, or instructor approval. Laboratory fee required.

3332 Sculpture IV (0-6)

Experimentation in the casting of non-ferrous metals to include a variety of techniques and safety procedures. Six hours in studio per week. *Prerequisite:* SCUL 3302 with a grade of "C" or better, or instructor approval. Laboratory fee required.

3342 Sculpture V (0-6)

The exploration of Sculptural form through the use of non-traditional materials. Six hours in studio per week. *Prerequisite:* SCUL 2302 with a grade of "C" or better, or instructor approval. Laboratory fee required.

4302 Sculpture VI (0-6)

Investigation into the facets of public Sculpture and formal proposal writing. Six hours in studio per week. *Prerequisite:* SCUL 2302 or instructor approval. Course fees required.

4332 Sculpture VII (0-6)

Advanced sculptural investigation emphasizing individual directional development. Six hours in studio per week. *Prerequisites:* SCUL 2302 and 6 semester hours of sculpture. Course fees required.

4342 Special Problems in Sculpture (0-6)

Continued development of an individual direction in Sculpture. May be repeated for credit when problem varies. *Prerequisites:* SCUL 2302 and 9 semester hours of sculpture. Course fees required.

See the *Graduate Catalog* for graduate programs and courses.

 Indicates Texas Common Course Number

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Chicano Studies

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DIRECTOR: Dennis J. Bixler-Márquez
FACULTY:

Professors Emeriti: Norma G. Hernández, Ellwyn Stoddard, Roberto E. Villarreal, John O. West

Chicano Studies: Acosta, Aguirre, Arrieta, Contreras, Galicia, González, Herrera, Ortega, Ramirez, Tabuenca, Vera

Clinical Laboratory Sciences: Domínguez

Communication: Barrera-Herrera, Pérez, Pineda, Sowards

Creative Writing: Alcalá, Chacón, Ramos, Sáenz

Criminal Justice: Rodríguez

Educational Psychology and Special Services: Calvo, Cortez

Educational Leadership and Foundations: Méndez, Navarro, Pacheco, Rincones

English: Abarca, Fredericksen, Gladstein, Salinas

History: Chávez, Jackson, Leyva, Topp

Institute for Policy and Economic Development: Bretting, Peña

Kinesiology: Triana

Languages and Linguistics: Amastae, Elerick, Garcia, Nigro, Teschner

Music: Siqueiros

Nursing: Amaya, Luján

Philosophy: Haddox, Springer

Political Science: Coronado, Payán, Rocha, Staudt

Psychology: Morera, Zárate

Social Work: Cabada, Yribia

Sociology and Anthropology: Campbell, Collins, Curry, Grineski, Heyman, Howard, Morales, Nuñez-Mchiri

Teacher Education: Araujo, Bixler-Márquez, Carrejo, Casas, Cashman, Ciriza, De La Piedra, Descamps, Dworin, Esquinca, Godina, González, Hampton, Izquierdo, Luykx, Munter, Peregrino, Reyes, Rossatto, Seda, Soto Más, Tinajero, Ullman

UT Houston School of Public Health: Balcázar

UTEP/UT Austin Cooperative Pharmacy Program: Sias

WRITER-IN-RESIDENCE: Contreras

ARTISTS-IN-RESIDENCE: Guerrero, Martínez, Natividad

Chicano Studies offers a variety of courses from a number of disciplines. These courses are designed to impart knowledge about the Mexican-origin population, and its distribution in the U.S., its history, literature, culture, economic features, social issues, and language. Chicano Studies is designed to provide individuals with the opportunity to prepare for (1) careers in community development programs and teaching at all levels; (2) further study in the fields of the humanities, social science, law, and education; (3) advanced study in cultural, gender and American studies; and (4) professional studies such as law and health. All courses listed in this interdisciplinary program are open to students meeting the academic prerequisites. Students may start at the sophomore level. Credit may be counted toward:

1. An interdisciplinary major in Chicano Studies (30 semester hours of core courses; see below)
2. A minor (18 hours): Social Science Option, Humanities Option, Fine Arts Option, and Interdisciplinary Option

Students desiring to pursue one of these programs should consult with the Chicano Studies Director to determine a course of study suitable to their interests and professional needs.

Major in Chicano Studies (30 hours)

Students wishing to major in Chicano Studies must complete the following:

1. 30 semester hours of academic Core Courses as follows:

- a. 3 **CHIC 3311 (It is recommended that this course be taken first.)**
 - b. 3 ANTH 3325; PHIL 2313; SOCI 3325; SPAN 3320, SPAN 3330; CHIC 4301, CHIC 4304
 - c. 3 ENGL 3374; THEA 3335, ARTH 3373, ARTH 3383
 - d. 3 ENGL 3310
 - e. 3 HIST 3309
 - f. 3 POLS 4313 or POLS 4315
 - g. 3 CHIC 3302 or CHIC 3304
 - h. 9 CHIC 3301, CHIC 3303, CHIC 3339, CHIC 4301, CHIC 4304, CHIC 4306, CHIC 4307, CHIC 4350, CHIC 4450; HIST 3328, HIST 3342, HIST 3350, HIST 3390 (when topic is appropriate); PHIL 4353, POLS 4313; POLS 4339; SOWK 3326; SPAN 3325; BED 4340 (Students desiring to enroll in BED 4340 need to consult first with the Chicano Studies Adviser to obtain registration clearance.)
2. Proficiency in Spanish must be established by passing SPAN 2302 or 2304 or placing into and passing a third-year course Spanish course.
 3. A term paper, with a minimum grade of "B," in an Upper-division Chicano Studies course (3300+) must be on file in the program's office.

Minor in Chicano Studies (18 hours)

For students with multiple interests, a minor in Chicano Studies may be pursued with another major. 18 hours are required to complete a minor, at least 12 of which must be upper-division courses. Students have the choice of four options from which to choose:

Social Science Option (18 hours)

1. 3 **CHIC 3311 (It is recommended that this course be taken first.)**
2. 3 CHIC 4301, CHIC 4304; ANTH 3325; ARTH 3373, ARTH 3383; POLS 4313, POLS 4315; SOCI 3325; SPAN 3320, SPAN 3330
3. 12 CHIC 3301, CHIC 3303, CHIC 3304, CHIC 3339, CHIC 4304, CHIC 4306, CHIC 4307, CHIC 4350, CHIC 4450; ENGL 3374; POLS 4313, POLS 4315, POLS 4339, POLS 4370 (when topic is appropriate); SOWK 3326, SOWK 3336

Humanities Option (18 hours)

1. 3 **CHIC 3311 (It is recommended that this course be taken first.)**
2. 3 ARTH 3373, ARTH 3383; CHIC 3302, CHIC 4301; PHIL 2313; SPAN 3320, SPAN 3330
3. 12 CHIC 3301, CHIC 3303, CHIC 3304, CHIC 4307, CHIC 4350, CHIC 4450;
ENGL 3310, ENGL 3374; HIST 3309, HIST 3328, HIST 3342, HIST 3390 (when topic is appropriate); PHIL 4353 (when topic is appropriate); SPAN 3325

Fine Arts Option (18 hours)

1. 3 **CHIC 3311 (It is recommended that this course be taken first.)**
2. 6 MUSL 1326, MUSL 3325; CHIC 3304; DANC 1140*, MJSA 1142*; KIN 2342 *DANC 1140 and MJSA 1142 may be repeated for credit. Only 3 credits of 1140 and 1142 (combined) may be applied toward the minor.
3. 3 ARTH 3353, ARTH 3363, ARTH 3373, ARTH 3383
4. 6 THEA 3335; CHIC 3302, CHIC 3303, CHIC 4307; SPAN 4390 (when topic is Spanish Cinema)

Interdisciplinary Option (18 hours)

1. 3 **CHIC 3311 (It is recommended that this course be taken first.)**
2. 3 ANTH 3325; ARTH 3373, ARTH 3383; CHIC 3302, CHIC 4301, CHIC 4304; PHIL 2313; POLS 4313, POLS 4315; SOCI 3325; SPAN 3320, SPAN 3330
3. 12 BED 4340; CHIC 3301, CHIC 3303, CHIC 3304, CHIC 3339, CHIC 4304, CHIC 4306, CHIC 4307, CHIC 4350, CHIC 4450 (when topic is appropriate); ENGL 3310, ENGL 3374; HIST 3309, POLS 4315; SPAN 3325; SOWK 3326, SOWK 3336, THEA 3335 (Students desiring to enroll in BED 4340 need to consult first with the Chicano Studies Adviser to obtain registration clearance.)

Core Courses

Anthropology

ANTH 3325 Chicanos and Mexicans in the U.S.

Art History

ARTH 3353 Pre-Columbian Art and Architecture

ARTH 3363 Art in Mexico: Ancient to Modern

ARTH 3373 Contemporary Latin American and Chicano Art

ARTH 3383 Spanish Colonial and Modern Art of Mexico and the Borderlands

Bilingual Education

BED 4340 Principles of Bilingual Education/ESL (Students desiring to enroll in BED 4340 need to consult first with the Chicano Studies Adviser to obtain registration clearance.)

Chicano Studies

- CHIC 3301 La Chicana
- CHIC 3302 Chicano Cinema
- CHIC 3303 The Border Image in Mexican Film
- CHIC 3304 Chicano/Latino Music in the U.S.
- CHIC 3311 Chicano Studies: Societal Issues
- CHIC 3339 Cultural Diversity and Youth in the U.S.
- CHIC 4301 Chicano Legal History
- CHIC 4304 Environmental Justice and Minority Communities in the U.S.
- CHIC 4306 Colonias on the U.S.-Mexico Border
- CHIC 4307 Hispanic Entrepreneurship
- CHIC 4350 Topics in Chicano Studies
- CHIC 4450 Topics in Chicano Studies

Dance

- DANC 1140 Ballet Folklorico

English

- ENGL 3310 Chicana/o Literature
- ENGL 3374 Folklore of the Mexican American

History

- HIST 3309 Mexican American History
- HIST 3328 History of Hispanic Peoples in the United States
- HIST 3342 The Spanish Borderlands
- HIST 3350 The Mexican Revolution
- HIST 3390 History Special Topics (when topic is appropriate; advisor's approval required)

Kinesiology

- KIN 2342 Spanish Dance

Applied Music

- MUSA 1142 Mariachis

Music Literature and History

- MUSL 1326 The Music of Mexico
- MUSL 3325 Music on the Border

Philosophy

- PHIL 2313 Chicanos and American Thought
- PHIL 4353 Independent Study (when topic is appropriate; advisor's approval required)

Political Science

- POLS 4313 Southwestern Border Politics
- POLS 4315 Latinos in the American Political System
- POLS 4339 U.S. Latin American Relations
- POLS 4370 Readings in Political Science (when topic is appropriate; advisor's approval required)

Social Work

- SOWK 3326 Social Work in Mexican-American Communities
- SOWK 3336 Child Welfare Practice and Services in a Border/Bi-National Context

Sociology

- SOCI 3325 Chicanos and Mexicans in the U.S.

Spanish

- SPAN 3320 Culture and Civilization of Spain
- SPAN 3325 The Confluence of Mexican and Chicano Literature
- SPAN 3330 Spanish American Civilization
 - SPAN 4390 Topics in Spanish (when topic is appropriate; advisor's approval required)

Theatre

- THEA 3335 Hispanic Theatre

Chicano Studies (CHIC)

3301 La Chicana (3-0)

An interdisciplinary examination of the socioeconomic, political, and cultural forces that affect the status of Chicanas in American society. Special considerations will be given to the role of Chicanas in the Women's and Chicano Movements, as well as the Mexicana/Chicana confluence in the U.S.-Mexico border region.

3302 Chicano Cinema (3-0)

An examination of the American film industry with respect to the Chicano's role, historically and culturally, in the genre. A series of films, including Hollywood commercial and Chicano-made films, will be screened, as part of an analysis of Chicano images and their impact on American popular culture. This is an interdisciplinary course that employs analytical constructs and techniques used in cultural anthropology, sociology, film criticism, and history. Course fee required.

3303 The Border Image in Mexican Film (3-0)

Analysis of the U.S.-Mexico Border image in Mexican cinema, to include the salient demographic, cultural, linguistic, and political characteristics of the region. Course fee required. The course will be taught in Spanish.

3304 Chicano/Latino Music in the U.S. (3-0)

An examination of the history of Tex-Mex and Latin music – particularly from Mexico, Cuba, Brazil, and Argentina – and its influence in U.S. popular music.

3311 Chicano Studies: Societal Issues (3-0)

An interdisciplinary analysis of the salient historical, cultural, and social issues of contemporary importance to the Chicano population, with a particular emphasis on the U.S.-Mexico border.

3339 Cultural Diversity and Youth in the U.S. (3-0)

Survey of socioeconomic and cultural characteristics of ethnic groups in the U.S. and how they affect the participation of these groups in the American education system. Includes examination of specific policies and practices in those institutions that promote or inhibit participation.

4301 Chicano Legal History (3-0)

An analysis of the salient judicial cases and federal and state legislation that have affected the status of Hispanics and their participation in American society.

4304 Environmental Justice and Minority Communities in the U.S. (3-0)

An examination of environmental justice issues in the U.S., with an emphasis on communities, agencies and efforts that address sustainable development in the U.S.-Mexico border region. The underpinnings of the environmental justice movement in the U.S. and the regional policy formulation and practice implications for these communities will be central to the course. The course may require field trips. (CHIC 4304 is the same course as AFST 4304; SOCI 4304; ANTH 4304; and POLS 4304.)

4306 Colonias on the U.S.-Mexico Border (3-0)

A study of the unincorporated population settlements in various regions along the U.S.-Mexico border. Emphasis on public policy and social service issues. This course may require field trips. (CHIC 4306 is the same as SOCI 4306 and ANTH 4306.)

4307 Hispanic Entrepreneurship (3-0)

An examination of Hispanic entrepreneurship in the United States that includes the culture, language, social dynamics, demographics and business opportunities of Hispanic communities. The student will analyze entrepreneurship, business ownership, features of marginal and formal business ownership, and be introduced to the formal business process.

4350 Topics in Chicano Studies (3-0)

4450 Topics in Chicano Studies (4-0)

An examination of a currently relevant subject from the perspective of Chicano Studies. Topics will vary and will be drawn from the social sciences, humanities, fine arts, and education. May be repeated for credit when topic varies.

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Communication

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CHAIRPERSON: Patricia D. Witherspoon
PROFESSOR EMERITUS: Ray Small
PROFESSORS: Singhal, Witherspoon
ASSOCIATE PROFESSOR EMERITA: Jean H. Mculka
ASSOCIATE PROFESSORS: Barrera, Byrd, Perez, Riccillo, Ruggiero, Yang
ASSISTANT PROFESSORS: Pineda, Sowards, Trejo
LECTURERS: Arocha, Mitchell, Mullins, Smith-Soto

The Department of Communication affords students the opportunity to pursue a Bachelor of Arts degree in Communication. Five study concentrations are available: Print Media, Organizational and Corporate Communication, Media Advertising, Electronic Media, and Communication Studies. In addition to taking core courses, each student completes requirements for his/her sequence, as well as six or nine hours of electives.

Core Courses: All Concentrations (9 hours)

- COMM 1370 Introduction to Communication
- COMM 3371 Communication Theory and Analysis
- COMM 4372 Methods of Research in Communication

Print Media Concentration

Requirements (15 hours) – Each of the following sequence required courses has as prerequisites COMM2300 and COMM2371

- COMM 3311 Public Affairs Reporting
- COMM 3313 News Gathering and Investigation
- COMM 3357 New Communication Technologies
- COMM 4311 News Editing
- COMM 4371 Communication Law and Society

Electives (6 hours)

Any upper-division course except those included in sequence requirements for this major.

Organizational and Corporate Communication Concentration

Requirements (18 hours)

- COMM 3320 Writing for Public relations and Corporate Communication
- COMM 3321 Public Relations
- COMM 3322 Communication and Conflict
- COMM 3323 Communication and Organizational Leadership
- COMM 3355 Organizational Communication
- COMM 4323 Case Studies in Public Relations

Electives (9 hours)

Any upper-division course except those included in sequence requirements for this major.

Media Advertising Concentration

Requirements (18 hours)

- COMM 2330 Principles of Advertising
- COMM 3332 Advertising Design, Graphics and Layout
- COMM 3333 Creative Strategy/Copywriting
- COMM 3338 Integrated Marketing Communications
- COMM 4330 Media Planning and Buying
- COMM 4335 Advertising Campaigns

Electives (9 hours)

Any upper-division course except those included in sequence requirements for this major.

Electronic Media Concentration

Requirements (21 hours)

- COMM 2300 Writing for Communication Professions
- COMM 2371 Writing for the Mass Media
- COMM 2342 Introduction to Video Systems
- COMM 2343 Audio in Media
- COMM 2372 Mass Media and Society
- COMM 3341 Writing for Electronic Media
- COMM 4371 Communication Law and Society

Electives (6 hours)

Any upper-division course except those included in sequence requirements for this major.

Communication Studies Concentration

Requirements (18 hours)

- COMM 2350 Interpersonal Communication
- COMM 2352 Persuasion and Social Influence
- COMM 3353 Intercultural Communication
- COMM 3354 Small Group Communication
- COMM 3357 New Communication Technologies
- COMM 4352 Contemporary Rhetoric

Electives (9 hours)

Any upper-division course except those included in sequence requirements for this major.

Spanish Language Media Option

Students choosing to pursue this option must:

1. Demonstrate a proficiency in spoken and written Spanish through an acceptable score on an examination developed by representatives from the Departments of Communication and Languages and Linguistics. The examination would include objective questions (e.g. in grammar and vocabulary), as well as a writing sample.
2. Take the following existing courses, including bilingual sections of five courses listed below.

All students enrolled in the Spanish Language Media option will enroll in the bilingual section of COMM2371, "Writing for the Mass Media." Other course requirements in each major are provided below.

Spanish Language Print Media Concentration

Requirements (15 hours)

- COMM 3311 Public Affairs Reporting (bilingual section)
- COMM 3313 Newsgathering and Investigation (bilingual section)
- COMM 4300 Internship (in a Spanish language media outlet)
- TRAN 3359 Introduction to Translation
- TRAN 4382 Translation from the Information Media

Electives

Any upper-division course except those included in sequence requirements for the Print Media major.

Spanish Language Electronic Media Concentration

| | | |
|------|------|---|
| COMM | 3341 | Writing for Electronic Media (bilingual section) |
| COMM | 4341 | Media Announcing and Performance(bilingual section) |
| COMM | 4300 | Internship (in a Spanish language media outlet) |
| TRAN | 3359 | Introduction to Translation |
| TRAN | 4382 | Translation from the Information Media |

Electives

Any upper-division course except those included in sequence requirements for the Electronic Media major.

Minor in Communication (18 hours)

COMM 1370, 2371, 3371, and nine hours of upper-division Communication courses. A MINOR PROGRAM REQUEST FORM including departmental approval must be filed with the department.

Minor in Screenwriting (Interdepartmental)

Eighteen hours of course work, twelve hours of which are required and six of which are from a menu of options, from the Departments of Communication, English, and Theatre Arts and Film to train students in the art of writing for the cinema.

Required Courses

| | | |
|------|------|---|
| ENGL | 3361 | Introduction to Creative Writing |
| ENGL | 3369 | Television and Screenplay Writing |
| THEA | 3392 | Radio, TV, and Film Scripting |
| | or | |
| THEA | 4340 | Selected Topics, when taught as Screenwriting II |
| | or | |
| COMM | 4350 | Selected Topics, when taught as From Script to Screen |

Menu Options

| | | |
|------|------|---|
| THEA | 4318 | Playwriting |
| THEA | 4340 | Selected Topics, when taught as Structural Analysis of Scripts |
| ENGL | 3367 | Fiction Techniques |
| ENGL | 3302 | Literature and Film |
| ENGL | 4340 | Advanced Literary Studies, when taught as Screenplays as Literature |
| THEA | 3325 | Directing I |

As a prerequisite to the program, students must take THEA 1390, Introduction to the Art of the Motion Picture, either as fulfillment of the Visual and Performing Arts Block of the Core Curriculum or as an elective. It is also recommended that students fulfill the Humanities Block of the Core Curriculum with ENGL 2314, Introduction to American Drama.

Teacher Certification

Students seeking the BA degree in Communication may choose a minor in secondary teacher education with certification in Journalism or Speech. The Print Media Concentration with a minor in secondary education will lead to certification in journalism. The Electronic Media Concentration will also lead to certification in Journalism, provided that COMM 3311, 3313, and 4311 are taken as part of the degree plan electives. The Communication Studies Concentration with a minor in secondary education will lead to certification in Speech.

Communication (COMM)

1301 Public Speaking (3-0)

( SPCH 1315)

Introduction to the theory and practice of public speaking; the inventing, arranging, phrasing, and presenting of ideas to an audience. The complementary skills of speaking and listening are developed through criticism of speeches presented in class. *Prerequisite:* ENGL 0311 or ESOL 1309 or ENGL 1311 or placement into ESOL 1311.

1302 Business and Professional Communication (3-0)

( SPCH 1321)

A course in communication covering both informative and persuasive presentations as these occur in business and professional activities. Instruction and guided practice in informal and semi-formal speaking situations. *Prerequisite:* ENGL 0311 or ESOL 1309 or ENGL 1311 or placement into ESOL 1311.

1370 Introduction to Communication Studies (3-0)

( COMM 1307)

An introduction to the field of communication. A survey of theories and issues associated with the communication process from intrapersonal communication to mass communication.

1611 Written and Oral Communication (6-0)

Integrated study of and practice in oral and written communication, with emphasis on the process leading to the creation of effective essays and speeches. Students are offered the opportunity to develop complementary skills of reading and listening through extensive response to others' written and spoken work. Counts for both ENGL 1311 and COMM 1301. *Prerequisite:* ENGL 0311 with a grade of "C" or better or placement by exam.

2201 Forensic Practicum: Debate (0-4)

Practical laboratory experience in all phases of research, case preparation, argumentation, and analysis of the current National Debate topic and/or the current Cross-Examination Debate Association topic; may include preparation for Lincoln-Douglas and parliamentary debate formats. Offers preparation for intercollegiate competition and for participation in on-campus public debate program that may include topics of local/current interest. May be repeated for credit.

2300 Writing for Communication Professions (3-0)

( COMM 2311)

An introduction to writing techniques used in media. Emphasis on media style and story construction, grammar, spelling, and punctuation. *Prerequisites:* Sophomore standing; ENGL 1311, ENGL 1611, or COMM1611; ENGL 1312.

2330 Principles of Advertising (3-0)

( COMM 2327)

The role of advertising in society. Basic concepts include marketing message creation, budget determination, agency-client relationships, creative strategy, media considerations, and social and ethical responsibility of advertisers. *Prerequisites:* Sophomore standing and COMM1370 with a grade of "C" or better.

2342 Introduction to Video Systems (3-2)

An introduction to the history, theory, technology, and production of visual communication from cameras to computers. *Prerequisite:* COMM1370. Course fee required.

2343 Audio in Media (3-2)

The history, theory, and production of audio communication. Development and review of audio techniques from analogue to digital formats. *Prerequisite:* COMM1370. Course fee required.

2350 Interpersonal Communication (3-0)

( SPCH 1318)

The study of contemporary interpersonal communication theory and research. Both theory and skills are emphasized. *Prerequisites:* Sophomore standing and ENGL 1312.

2352 Persuasion and Social Influence (3-0)

An introduction to theories of persuasion. Analysis of the communication process as social influence in various contexts of communication. *Prerequisite:* Sophomore standing or instructor approval.

2371 Writing for the Mass Media (3-0)

Fundamentals of news writing and story structures with emphasis on development of information-gathering skills as well as journalistic style. Concentration on print media. *Prerequisites:* ENGL 1311, or ENGL 1611, or COMM1611 and ENGL 1312, COMM1370, COMM2300 and sophomore standing. Course fee required.

2372 Mass Media and Society (3-0)

( COMM 1307)

An introduction to the mass communication media in the United States, their history, their roles, and issues within these media. Print, electronic, and digital systems are surveyed. *Prerequisite:* Sophomore standing.

3311 Public Affairs Reporting (3-0)

An intensive reporting course that examines public institutions, their structures and operations and provides student practice for publication in reporting on city, county, state, and federal offices. *Prerequisites:* Junior standing, COMM1370, and COMM2371. Course fee required.

3313 News Gathering and Investigation (3-0)

Emphasis on developing and writing news stories of substance and depth for publication. Emphasis on more complex issues and story structures with development of journalistic writing style. Includes news features, interpretive and investigative reporting, and news gathering. *Prerequisites:* Junior standing, COMM1370, COMM2371 with a grade of "C" or better, and COMM3311. Course fee required.

3317 Photography (3-0)

Basic instruction in photographic media. Camera lighting and development of techniques. Principles of composition. Development and printing techniques. *Prerequisite:* Junior standing. Course fee required.

3318 Media Announcing and Performance (3-0)

The techniques of announcing for radio, television, and related media. Emphasis on effective oral communication used in interpretation of radio commercials, television voice-overs, television and radio news, corporate videos and infomercials. *Prerequisites:* COMM 1370 and COMM2371 each with a grade of "C" or better.

3319 Online Journalism (3-0)

Examination of the emerging forms of information delivery by computer and related convergence of print, broadcast, and Internet media. Students gain practical experience in the production of an electronic information delivery product. *Prerequisite:* COMM2371 with a grade of "C" or better.

3320 Writing for Public Relations and Corporate Communication (3-0)

Emphasis on writing press releases, newsletters and a variety of instructional and promotional materials that are used in corporate and other organizational settings. Students will gain experience in analyzing the audiences and contexts for public relations and corporate communication writing, and will develop skills in applied communication writing contexts. *Prerequisite:* ENGL 1312 with a grade of "C" or better.

3321 Public Relations (3-0)

Principles, techniques, and methods used in public relations. *Prerequisites:* Junior standing and COMM2371 with a grade of "C" or better.

3322 Communication and Conflict (3-0)

This undergraduate course is designed to explore communication processes in interpersonal, organizational, and social conflict, and focus extensively on conflict management techniques in a variety of settings. In particular, the course will examine (a) basic principles and theories of communication and conflict, (b) contextual factors affecting the emergence of conflict, (c) the practice of conflict management and social change, and the outcomes of productive and destructive conflict. *Prerequisite:* COMM 1370 with a grade of "C" or better, or instructor approval.

3323 Communication and Organizational Leadership (3-0)

This course analyzes leadership as a communication process, focusing on concepts, theories and functions important in the leadership of organizations. The course particularly concentrates on leaders as change agents, as creators of community, and as facilitators of diversity. The course is predominantly concerned with evolving theories of leadership and the importance of communication in the enactment of leadership behaviors. This course may be used to satisfy the Social and Behavioral Sciences block of the Liberal Arts degree plan.

3330 Advertising Research (3-0)

An introduction to advertising research, design and methodology. Visual methodology into the creation of concepts and copy for the primary ad media. Includes consumer and business media and direct advertising. Offered in fall semester only. Project required. *Prerequisites:* Junior standing and COMM2330 with a grade of "C" or better.

3331 Graphics of Print Media (3-0)

Use of graphics for effective communication including typography, color, photography, design in advertising, newspaper and magazine, computer-based

pagemaker, and printing methods. *Prerequisites:* Junior standing, COMM 1370, COMM2330, and COMM2371. Course fee required.

3332 Advertising Design, Graphics and Layout (3-1)

Use of graphics for effective communication including typography, color, photography, design in advertising, newspaper and magazine, computer-based software application, and printing methods. Includes basic production of newspaper, magazine and internet advertising from conceptualization to comprehensives. *Prerequisite:* COMM2330 with a grade of "C" or better.

3333 Creative Strategy/Copywriting (3-1)

Strategic research, problem definition, planning, creativity, and ethics in advertising and public service announcements. Applying the techniques of research and the principles of communication and persuasion to the development of objectives, strategy and creative concepts. The theory and practice of developing appropriate messages to reach and influence target audiences. Integrating research, strategy and audio/visual methodology into the creation of concepts and copy for the primary ad media. Includes consumer and business media and direct advertising. *Prerequisites:* Junior standing, COMM2330 and COMM3332 each with a grade of "C" or better. Course fee required.

3336 International Advertising (3-0)

Introduction to advertising on an international basis. Examines cultural differences and government's role in the marketing process, and appropriate strategic decision-making for global advertising campaigns. *Prerequisites:* Junior standing and COMM2330 with a grade of "C" or better.

3337 Radio/TV Advertising (3-1)

Development of techniques for commercial and public service advertising in radio and television. Specific strategies and formats will be analyzed and developed for final production. *Prerequisites:* COMM2330 and COMM3333 each with a grade of "C" or better.

3338 Integrated Marketing Communications (3-0)

The course is designed to provide a brief outline of the historical development and present state of integrated marketing communications (IMC) by the advertising industry. IMC is viewed as data-driven and consumer-centric methods of communicating with consumers. The course examines the fundamental principles of IMC, the basics of planning and implementing IMC into a traditional advertising campaign, and the functions of databases in developing consumer-oriented IMC programs. The course reviews major components in the IMC mix, skills and tools required for students to execute successful IMC programs as part of or in complement to an advertising campaign. *Prerequisite:* COMM2330 with a grade of "C" or better, or instructor approval.

3339 Consumer Psychology and Advertising (3-0)

This course is designed to help students understand factors affecting the consumer decision-making process. Specifically, the course examines how advertising influences and responds to consumer behavior. The course discusses the dynamics between advertising and the consumer-decision making process. Students will be exposed to consumer behavior theories and concepts that are essential to the success of any advertising campaign. Class discussions and assignments will center on the applications of consumer behavior theories to advertising decision making processes and practices. *Prerequisite:* COMM2330 with a grade of "C" or better, or instructor approval.

3340 New Media Advertising (3-0)

This course is designed to familiarize students with recent developments in new media and their applications to advertising. This course will cover state-of-the-art developments in emerging and converging media landscape in the United States and around the world. Students will also learn important theories and concepts that can help them to incorporate new media into any advertising campaigns. *Prerequisite:* COMM2330 with a grade of "C" or better, or instructor approval.

3341 Writing for Electronic Media (3-0)

The techniques of writing for broadcast news, advertising for radio and television, and public programs for radio, television, and video. *Prerequisites:* Junior standing and COMM2371.

3342 Advanced Electronic Media Systems (3-0)

Advanced techniques of video production and technology. *Prerequisites:* Junior standing, COMM2342, and COMM3341. Course fee required.

3343 Video Editing (2-3)

This class offers "hands-on" experience using digital, non-linear editing software systems, including Apple Final Cut Pro, Soundtrack Pro, Motion, DVD Studio Authoring, and Digidesign Pro Tools digital audio editing. Working on Macintosh computers, students will complete a series of editing projects in which they will capture video, design and edit the video, audio, and graphics components, and then output programs to digital video or DVD. The courses will also include lecture on the history, theory and aesthetics of film editing, which will incorporate screenings of exemplary films and videos, and class discussion and analysis of the concepts presented.

3344 Media Programming for Radio and TV (3-0)

History and development of techniques for media programming in radio and television. Specific program formats will be analyzed and developed. *Prerequisites:* Junior standing, COMM2343, and COMM3342.

3345 Television Scriptwriting (2-3)

This basic digital video production course is designed for students who have previously taken screenwriting and have a finished short screenplay that they want to produce. Emphasis will be on the process of breaking down a script, and visualization of the story into concrete filmic components. Following a series of production workshop exercises, the short films or scenes will then be cast, shot edited, and screened/critiqued for the class.

3346 Documentary Video Practicum (2-3)

This advanced documentary video production course is for students who have taken COMM2342: Introduction to Video Systems (or who have had sufficient previous video production experience). Classes and labs will consist of: lecture and group discussion of theory and techniques of documentary video production based on assigned readings and in-class screenings; and individual and group documentary video production projects. Screenings will provide examples of the various approaches to documentary film, with an emphasis on recent American television and theatrical documentary films. *Prerequisite:* COMM2342 with a grade of "C" or better.

3351 General Semantics (3-0)

A survey of problems in language use, concentrating on theories of meaning. Review of semantics principles from general semantics to general systems theory. *Prerequisite:* Junior standing.

3353 Intercultural Communication (3-0)

The process of communication in culture, verbal, nonverbal cues, values and person perception in cross and intercultural interaction. *Prerequisite:* Junior standing, COMM1370, or instructor approval.

3354 Small Group Communication (3-0)

An examination of theories, research, and principles to small group communication. Both theory and skill development are stressed.

Prerequisite: Junior standing or instructor approval.

3355 Organizational Communication (3-0)

An examination of the theory and research on the communication process in organizations. Functional and interpretive theories and applications are explored. *Prerequisite:* Junior standing or instructor approval.

3356 Inter Ethnic Communication (3-0)

Examines communication structures that influence how individuals from different ethnic backgrounds interact. Particular attention is given to interpersonal communication among ethnicities and races in the border region. *Prerequisites:* Sophomore standing, COMM2350 and ENGL 1312, or instructor approval.

3357 New Communication Technologies (3-0)

The theory and research of the effects of technology on human communication. Surveys the impact of the effects on human interaction mediated by various technologies. *Prerequisite:* Junior standing, COMM1370, or instructor approval.

3358 Communication and Popular Culture (3-0)

Explores the communicative functions of popular culture and its effects on culture and identity. Emphasizes effects of mass media on American culture and its subcultures. *Prerequisites:* COMM1370 with a grade of "C" or better or instructor approval.

3371 Communication Theory and Analysis (3-0)

Survey of significant communication theories, providing a history of similarities and differences among theories and theorists. Theories will range from intrapersonal processes to mass communication. *Prerequisites:* Junior standing and COMM1370.

4300 Communication Internship (1-15)

Students in this program are provided an opportunity to gain practical experience through unremunerated professional participation in the activities of professional firms, agencies, or departments in their major emphasis areas. *Prerequisites:* GPA 2.5, Junior standing, COMM1370, and COMM2371.

4311 News Editing (3-0)

Instruction and practice in basic story editing and production with focus on practical experience in editing and copy preparation for publication. Emphasis on development of news judgment, accuracy, and fairness, while exposing students to legal problems confronting the media. *Prerequisites:* Junior standing, COMM3311, and COMM3313. Course fee required.

4312 Feature Writing (3-0)

Methods of gathering materials for feature stories through interviews, research and observation; study of feature story form and style; discussion of markets for literary material practice in writing feature stories. *Prerequisites:* Senior standing, COMM3313 with a grade of "C" or better, COMM1370, COMM2371, and COMM3311.

4323 Case Studies in Public Relations (3-0)

Advanced theory and application of principles of public relations. Significant case studies are reviewed and analyzed. *Prerequisites:* Junior standing and COMM3321.

4330 Media Planning and Buying (3-0)

Decision making in selection and use of advertising media. Evaluation of media alternatives in terms of marketing objectives, audience analysis, cost, and editorial and program content. Selection of space time units and media schedules. Project required. *Prerequisites:* Senior standing and COMM2330 with a grade of "C" or better.

4331 Advertising Sales and Management (3-0)

Process of developing an effective sales staff in the advertising industry. Sales policies, procedures techniques, time-management, client relationship, closing and sales services are discussed. Management procedures, policies, and responsibilities in the successful operation of advertising industries. Areas covered are planning, problem-solving, personnel, facilities, government, financial resources, and public service. *Prerequisites:* COMM2330 and COMM4330 each with a grade of "C" or better.

4333 Magazine Production (3-1)

Production of small magazines through the use of computer software. Stresses basics of organization, layout, design and copywriting. Project required. *Prerequisites:* COMM2330, COMM3332, and COMM3333 each with a grade of "C" or better.

4335 Advertising Campaigns (3-3)

Strategic research, problem definition, audience definition, planning, creativity, and ethics in advertising and public service campaign development. Applying the techniques of research and the principles of communication and persuasion to the development of advertising objectives, strategy and creative concepts. Project required. Offered in fall semester only. *Prerequisites:* Senior standing and COMM2330, COMM3332, COMM3332 and COMM4330 each with a grade of "C" or better. Laboratory fee required.

4337 Advanced Advertising Campaigns (3-1)

Advanced study of advertising, marketing and communication theories. Includes advanced research, planning, design, client presentation, and execution of major advertisement campaign for national client. Designed for national student competition for American Advertising Federation. Project required. Offered in spring semester only. *Prerequisites:* COMM2330, COMM3332, COMM3333 and COMM4335 each with a grade of "C" or better.

4340 Radio Documentaries (3-0)

Advanced writing and production techniques used in the development of documentary programs for radio. *Prerequisites:* Senior standing and instructor approval.

4341 Media Announcing and Performance(3-0)

Advanced techniques of writing for broadcast news, corporate instructional and promotional video. *Prerequisites:* Junior standing and COMM3341.

4350 Selected Topics (3-0)

Instruction of students individually and in groups in significant areas of communication which are not covered by regular catalog offerings. May be repeated for credit when content varies. *Prerequisite:* Junior standing.

4352 Contemporary Rhetoric (3-0)

Study of modern humanistic contributions to theories of communication and persuasion. *Prerequisite:* Junior standing.

4355 Advanced Organizational Communication (3-0)

In-depth study of organizational communication. Theory and research emphasis given to the exploration of issues with appropriate communication methodologies employed. *Prerequisites:* Junior standing and COMM3355 or instructor approval.

4359 Seminar in Communication (3-0)

Seminar for systematic discussion and research of topics in the field of communication. Specific content is determined by participating faculty and students. *Prerequisite:* Junior standing.

4371 Communication Law and Society (3-0)

A study of the rights and responsibilities imposed upon and exercised by the mass media under the American system of law. Ethical considerations in exercising responsibilities vested in the media are highlighted. *Prerequisites:* Junior standing, COMM1370, and COMM2371; or instructor approval.

4372 Methods of Research in Communication (3-0)

An overview of the various social science methodologies used in conducting research in the communication discipline. Includes problems of formulation, measurement of concepts, design, collecting, and analyzing data. *Prerequisites:* Senior standing and MATH 1320 with a grade of "C" or better.

See the *Graduate Catalog* for graduate programs and courses.

 Indicates Texas Common Course Number

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Creative Writing

415 Liberal Arts
(915) 747-5713
www.utep.edu/cw

CHAIR: Johnny Payne

We offer a Bachelor's in Creative Writing with a curriculum that combines literary studies with intensive writing workshops. We emphasize the rigorous study of literature alongside the acquisition of skills in the writing of fiction, poetry, essays, plays, screenplays and literary translation. As such, our degree plan strikes a balance between theory and practice, between critical and imaginative thinking. As students progress in their degree plan, they are free to place emphasis on or specialize in the study and writing of a specific genre. Another feature of our undergraduate degree is the possibility for qualified students to write a creative honors thesis. This is a chance for students to work closely with faculty on a culminating project, in a way that is usually only possible for graduate students. Our faculty is comprised of well-published, active writers who also have a passion for teaching. We believe in closely mentoring our students to give them a quality experience as writers in the making.

Bachelor of Arts in Creative Writing (120 credit hours)

This degree plan includes the general requirements for a B.A. degree in Creative Writing. **For students choosing the bilingual option, fifteen hours of course work in the major must be taken as bilingual classes.**

General Education Core (66-69 hours)

For the University Core Curriculum (42 hours) students should refer to the University Core Curriculum section of this Catalog. For the Liberal Arts General Education Requirements (24-27 hours) students should refer to that section found under the College of Liberal Arts.

Required Creative Writing Courses (30 hours)

(6 hours)

ENGL 3341 History of Form I (either is a corequisite for CRW 3362)

ENGL 3342 History of Form II

Taken in Fall and Spring of the sophomore year.

Upper-level courses (24 hours)

1. Creative Writing Gateway Course (3 hours)

CRW 3362 Introduction to Creative Writing (taken in Fall or Spring of the Sophomore year)

CRW 3301 Creative Writing for Non-majors (is a course for non-majors who want to try a Creative Writing course)

2. Creative Writing Junior-Senior Block (12 hours)

Take a total of four courses selected from the categories below, beginning in their junior year, after prerequisites are fulfilled. No more than two may be taken in a single category.

CRW 3371 Reading and Writing Fiction

CRW 3372 Reading and Writing Poetry

CRW 3373 Writing and Society

CRW 3374 Narrative Technique

CRW 3375 Poetics

CRW 4301 Playwriting

CRW 4302 Screenwriting

CRW 4303 Non-Fiction

CRW 4304 Literary Translation

3. Literature Courses (3 or 6 hours)

Choose any two junior or senior-level literature courses (1 course for those pursuing Honors).

The courses CRW 3373, CRW 3374, CRW 3375, and CRW 4304 may, if not count toward block #2, may be counted as literature courses. Also, CRW 3376, CRW 4307 and CRW 4308 may be counted as literature courses and are especially recommended as a major emphasis for students who wish to pursue a minor in Secondary Education.

4. Capstone Course (3 hours)

CRW 4305 Senior Seminar

Focuses on some aspect of literature that is an outgrowth of a student's study within the major. Culminates in a senior paper—not a creative project (see Honors below).

focuses on some aspect of literature that is an outgrowth of a student's study within the major. Culminates in a senior paper or a creative project (see honors below for the creative project). Offered in Spring of the senior year.

Honors Thesis Sequence Students

After completion of the Creative Writing sequence courses, students may apply for acceptance into the honors thesis program. Requires a 3.0 minimum GPA in the major. If accepted, students will replace one upper-division literature course with an Honors Thesis course, to be taken in their final semester as an undergraduate. They will be required to produce a creative thesis manuscript. Qualified students who are accepted into the honors option may choose to write a thesis in Spanish. The instructor of the Honors Seminar will be the first reader of all theses for that year, and will enlist a second reader for each from the remaining faculty or allied faculty.

CRW 4306 Honors Seminar

Total Major Hours: 30 (sophomore and upper-level)

Minor in Creative Writing (18 hours, at least nine in upper-division) intended for non-majors in Creative Writing.

ENGL 3341 History of Form I (3 hours)

ENGL 3342 History of Form II (3 hours)

CRW 3362 Introduction to Creative Writing (3 hours)

Any three CRW courses taken from the following list (all 3 hours):

CRW 3371 Reading and Writing Fiction

CRW 3372 Reading and Writing Poetry

CRW 3373 Writing in Society

CRW 3374 Narrative Technique

CRW 3375 Poetics

CRW 4301 Playwriting

CRW 4302 Screenwriting

CRW 4303 Non-Fiction

CRW 4304 Literary Translation

Total Minor Hours: 18

Minor in Secondary Education for students majoring in Creative Writing

Students will follow the requirements of the School of Education. However, they are expected to take CRW 3376, Teaching Creative Writing as their pedagogy course within that major.

Creative Writing (CRW)

3362 Introduction to Creative Writing (3-0)

Study and practice of essential techniques of creative writing in at least two genres. *Prerequisite:* ENGL 2300 with a grade of "C" or better.

3371 Reading and Writing Fiction (3-0)

Intensive study, reading and practice in the various forms and approaches of fiction writing, including workshop discussion and individual student manuscripts. *Prerequisite:* CRW 3362 with a grade of "C" or better.

3372 Reading and Writing Poetry (3-0)

Intensive study, reading and practice in the various forms and approaches within poetry writing, including workshop discussion and individual student poems. *Prerequisite:* CRW 3362 with a grade of "C" or better.

3373 Writing in Society (3-0)

Study of the creation of literature and literary movements as responses to historical moments and societal changes, e.g. war poetry, the development of literary magazines, the Harlem Renaissance, the Latin American Boom. *Prerequisite:* CRW 3362 with a grade of "C" or better.

3374 Narrative Techniques (3-0)

Analysis of techniques, methods, and theories employed in the making of fiction and/or non-fiction. Writings may include critical reflections and short exercises in style. *Prerequisite:* CRW 3362 with a grade of "C" or better.

3375 Poetics (3-0)

Analysis of techniques, methods, and theories employed in the making of poetry. Writings may include critical reflections and short exercises in style. *Prerequisite:* CRW 3362 with a grade of "C" or better.

3376 Teaching Creative Writing (3-0)

This course will aid pre-service teachers/instructors, as both teachers and writers, in learning how to engage students in methods, techniques, and pedagogy relevant to literary analysis and creation. They will be expected to gain proficiency in writing in one or more literary genres, while constructing syllabi and assignments relevant to the

literary analysis and creation. They will be expected to gain proficiency in writing in one or more literary genres, while considering syntax and assignments relevant to the teaching of these same genres. *Prerequisite:* Department approval.

4301 Playwriting (3-0)

Intensive study, reading and practice in the various forms and approaches of playwriting, including workshop discussion of individual student plays. *Prerequisite:* CRW 3362 with a grade of "C" or better.

4302 Screenwriting (3-0)

Intensive study, reading and practice in various forms and approaches of screenwriting, including workshop discussion of individual student screenplays. *Prerequisite:* CRW 3362 with a grade of "C" or better.

4303 Non-Fiction (3-0)

Intensive study, reading and practice in the various forms and approaches of non-fiction, including workshop discussion of individual student non-fiction. *Prerequisite:* CRW 3362 with a grade of "C" or better.

4304 Literary Translation (3-0)

Theoretical consideration, reading and practice in various forms and approaches to literary translation, including individual projects. *Prerequisite:* CRW 3362 with a grade of "C" or better.

4305 Senior Seminar (3-0)

Small-group focus on a specific literary topic of relevance to creative writers, alongside individual projects leading to a senior research paper. *Prerequisite:* Department approval.

4306 Honors Seminar (3-0)

Individual creative manuscript projects under the direction and structured guidance of the honors instructor, including weekly meetings with the other seminar students. *Prerequisite:* Department approval.

4307 Poetics and Performance (3-0)

This course will engage pre-service teachers/instructors in examining the relationship between poetry and performance. Discussions will include the role of the poetry reading, the influence of musical forms on poetry, and approaches to performance poetry. Students will develop exercises that help them engage with and teach the historical models related to performance and poetry. *Prerequisite:* Department approval.

4308 Oral History Ethnography and Field Techniques (3-0)

This course will engage pre-service teachers/instructors in basic techniques and theoretical concepts of oral history compilation and ethnography as they pertain to imaginative literature. They will be asked to use interviews and archival material as the genesis of a creative process, producing imaginative work themselves as well as creating assignments for student consumption. The course will provide a research component to help students correlate field study and writing practice with their work in classrooms. *Prerequisite:* Department approval.

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Criminal Justice

101 Jack Vowell Hall
(915) 747-7943
crimjust@utep.edu

DIRECTOR: S. Fernando Rodriguez
PROFESSORS: Daudistel, Graves, Hosch, Malpass, Wood
ASSOCIATE PROFESSORS: Curry, Rodriguez
ASSISTANT PROFESSORS: Lee, Meissner
LECTURERS: Adcox, Alvarez, Eastman, Given, Goldstein, Leverton, Millan, Pokluda, Shannon, Velasquez, Wiles, Zamora

The Criminal Justice Program offers an interdisciplinary major leading toward a BA degree designed to provide students with a broad social science background for understanding crime, criminal behavior, and the criminal justice system and to offer the opportunity to prepare for a professional career in criminal justice.

Requirements for the BA Degree in Criminal Justice

The student will:

1. Complete a minimum of 120 semester hours, including at least 54 hours at the advanced (3000 or 4000) level.
2. Fulfill the general education core requirements for the Bachelor of Arts degree in the College of Liberal Arts.
 - a. Criminal Justice majors are encouraged to take ENGL 3359 Technical Writing in addition to the Communication Skills sequence.
 - b. Criminal Justice majors are encouraged to fulfill the mathematics requirement by taking PSYC 1303, SOCI 2312, or STAT 2380.
 - c. Criminal Justice majors are encouraged to take Sociology and Psychology courses to fulfill the social/behavioral science requirements.
3. Complete 30 hours of criminal justice courses including the following required courses: CRIJ 1301, CRIJ 1306, CRIJ 1310, CRIJ 2313, CRIJ 2328, CRIJ 3300, CRIJ 3313, and CRIJ 4390. A minimum of 15 credit hours in the major must be taken at the advanced (3300-4300) level.
4. Complete a minor of at least 18 hours, nine of which must be at the advanced (3000-4000) level. The minor field must be selected from a discipline different from that of the major field. Credit for courses taken to fulfill the minor may not be used to satisfy the major or general education core requirements. See the general BA minor requirements for a list of acceptable minors.
5. Complete electives as needed to bring the total semester hours of credit to 120. Elective credit cannot be used in meeting any other degree requirement. Electives of advanced (3000 or 4000) level may, however, be applied toward satisfaction of the requirement of 54 advanced hours.

Minor in Criminal Justice

Students who wish to minor in Criminal Justice should complete CRIJ 1301, CRIJ 1306, CRIJ 2313, CRIJ 2328, CRIJ 3300, and CRIJ 3313 for a total of 18 semester hours.

Criminal Justice (CRIJ)

General Prerequisite: Junior standing for all 3300 or 4300-level courses.

1301 Introduction to Criminal Justice I (3-0)

(CRIJ 1301)

Development and philosophy of criminal justice in a democratic society; introduction to agencies involved in the administration of criminal justice.

1302 Introduction to Criminal Justice II (3-0)

An introduction to the American legal system with a particular emphasis on situating the criminal justice system in the larger United States legal context. *Prerequisite:* CRIJ 1301 with a grade of "C" or better.

1306 Courts Systems and Practices (3-0)

Focuses on the role of the courts in the administration of criminal justice, with special attention to legal processing of criminal defendants. Topics include the structure of the American courts, due process, right to counsel, pre-trial release, plea bargaining, trial proceedings, and sentencing.

1310 Criminal Law (3-0)

History and philosophy of modern criminal law, including the structure, definition, and application of statute and leading case law; the elements of crimes and penalties.

2300 Criminal Law (3-0)

(👉 **CRJ 1310**)

History and philosophy of modern criminal law, including the structure, definition, and application of statute and leading case law; the elements of crimes and penalties.

2306 Introduction to Corrections (3-0)

(👉 **CRJ 2313**)

A tracing of the evolution and the philosophical underpinnings of institutional and community based correctional practices.

2328 Police Systems and Practice (3-0)

An overview of the structures, functions, and operations of law enforcement agencies in the United States, with emphasis on municipal police departments. The course surveys police operations, staff functions, personnel policies, and current innovations utilized in delivering police services. Covers such topics as police discretion, ethics, police-community relations, and the future of policing in American society.

3300 Effectiveness Assessment in Criminal Justice (3-0)

An overview of the process of effectiveness assessment in the development, application, and administration of criminal justice policy. *Prerequisite:* CRJ 1302 with a grade of "C" or better.

3301 Criminal Investigation (3-0)

Fundamentals of criminal investigation, including theory and history, and collection and preservation of evidence. *Prerequisite:* CRJ 3350 or consent of instructor.

3302 Police Systems and Practice (3-0)

An overview of the structures, functions, and operations of law enforcement agencies in the United States, with emphasis on municipal police departments. The course surveys police operations, staff functions, personnel policies, and current innovations utilized in delivering police services. Covers such topics as police discretion, ethics, police-community relations, and the future of policing in American society.

3303 The Private Sector and Criminal Justice (3-0)

The roles of nongovernmental actors in the justice process, with a focus on the legal and sociological implications of their existence in a democratic society. Both volunteer and profit-making agencies will be examined in relation to the traditional criminal justice agencies of police, courts, and corrections. Private security and loss prevention operations will be surveyed along with private adjudicatory systems and correctional programs.

3306 Community Corrections (3-0)

An examination of the role of the community in the reintegration of offenders. Analysis of those correctional programs which are designed to be administered in a community setting, including probation, parole, halfway houses, restitution, and community service.

3308 Juvenile Justice (3-0)

The law of juvenile delinquency and the administration of the juvenile justice system. The historical development of the concept of delinquency, the special status of juveniles before the law, and juvenile justice procedural law will be examined in detail.

3309 Correctional Counseling (3-0)

Methods used by correctional officers in rehabilitating criminal offenders. *Prerequisite:* Six hours of Psychology.

3311 Crime Control and Prevention (3-0)

An examination of those activities undertaken by public and private organizations to control and prevent crime. Those programs which have been successful in reducing the amount of crime will be analyzed, as well as attempts which have been made at predicting and deterring criminal behavior.

3312 Psychology and Law (3-0)

A review of the relationship of psychology to the legal system. Topics include theories of crime, identification and evaluation of criminal suspects, rights of victims and rights of the accused, forensic assessment, jury processes and decision making, punishment and sentencing, and psychological assumptions of legal systems and processes.

3313 Criminology (3-0)

This course surveys historical perspectives on crime, contemporary criminological theory, penological theory, current trends in crime, and critical thought on current criminal justice practices and procedures. Particular emphasis is given to the development and application of theory in regard to different types of crimes, "crime waves," and appropriate penal policy. *Prerequisite:* CRJ 1302 with a grade of "C" or better.

3321 Family Violence (3-0)

This course surveys definitions, prevalence, and theories of family violence in the United States. Special emphasis is given to 1) the impact of variation in definitions of family violence on scientific research and conclusions; 2) the societal response to family violence; and 3) the effectiveness of policing strategies of domestic violence.

3322 Research Methods in Criminal Justice (3-0)

3322 Research Methods in Criminal Justice (3-0)

Assessment of data collection and interpretation strategies in criminal justice research, including hypothesis formation, research design, types of data, and data analysis. *Prerequisite:* CRJ 1301.

3351 Criminal Justice on the United States-Mexico Border (3-0)

An examination of the nature and scope of crime on the United States-Mexico border and an evaluation of the strategies and programs employed by both governments to control criminal activity on the border.

3370 Victimless Crime (3-0)

This course examines those crimes commonly called "crimes without victims" or "vice crimes," particularly drug use, prostitution, and gambling. The course examines whether these behaviors are victimless and what social costs and benefits may result. In addition, the course examines criminalization and its alternatives.

3389 Criminal Justice Ethics (3-0)

This course identifies and examines the complexity of ethics pertaining to the practice of criminal justice. It focuses on applied ethics and the reasoning process justice practitioners can use to analyze and evaluate ethical dilemmas.

4300 Selected Topics in Criminal Justice (3-0)

Focuses on those selected issues and problems confronting the various components of the criminal justice system. Topics covered may change each semester. May be repeated for credit upon change of topic.

4301 Readings in Criminal Justice (3-0)

This course is designed for the advanced student who is capable of independent study. Existing regulations, both formal and informal, which govern practitioners in the area of criminal justice will be examined. This course may be repeated for credit when the topics vary. *Prerequisite:* Department approval.

4310 Internship in Criminal Justice (0-0-3)

A program in which the student is assigned two days (or 16-20 hours) each week to a criminal justice agency. A weekly seminar is also required. Designed to provide the student with an opportunity to apply academic training in practical situations. *Prerequisite:* Consent of the Program Director.

4311 Immigration Law and Administration (3-0)

An examination of federal regulations pertaining to legal and illegal immigration into the United States. Among the topics discussed are legalization, employer sanctions, amnesty, and constitutional rights of aliens.

4320 Criminal Justice Organization and Management (3-0)

The structures, functions, and operations of criminal justice agencies, including the police, the courts, and corrections are analyzed from an organizational and managerial perspective. Particular attention is given to supervision, decision-making, and policy analysis in the administration of justice.

4325 Moot Court (3-0)

Substantive and procedural problems encountered in a criminal court proceeding. Focus will be on the role of the law enforcement and correctional officer in the judicial process. *Prerequisite:* CRJ 2300 or department approval.

4390 The Interdisciplinary Nature of Criminal Justice (3-0)

A critical examination of selected problems and issues in the criminal justice system from an interdisciplinary perspective. Emphasis on theory and research, using comparative and integrative approaches, and case studies. *Prerequisites:* CRJ 1302 with a grade of "C" or better, CRJ 2306, CRJ 3300, CRJ 3302, CRJ 3313, and 6 hours of advanced CRJ courses. CRJ 3300, CRJ 3302, and CRJ 3313 may be taken concurrently with CRJ 4390.

4399 Research Practicum in Criminal Justice (0-0-3)

A course designed to give students supervised experience in conducting social science research on criminal justice problems. May be taken for a maximum of 9 credit hours. *Prerequisites:* Either (1) CRJ 3322, (2) PSYC 3201 and PSYC 3101, or (3) SOCI 3311 and instructor approval.

See the *Graduate Catalog* for graduate courses.

✦ Indicates Texas Common Course Number



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English

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english@utep.edu

CHAIRPERSON: Evelyn Posey

PROFESSORS EMERITI: Tommy Boley, Robert Northcutt Burlingame, Lillian Collingwood,

Rick DeMarinis, Robert Esch, Joseph Leach, James Mortensen,

Gail Mortimer, Joan Phelan Quarm, Ray Small, Walter Taylor, Maureen Potts Thompson, Leslie Ullman, John West

PROFESSORS: Armitage, Gladstein, Mangelsdorf, Meyers, Polette, Posey, Stafford

ASSOCIATE PROFESSORS: Abarca, Clark, Dick, Fredericksen, Foster, Johnson, Lawson, Marchino, Polette, Ruiter, Scenters-Zapico, Schmid

ASSISTANT PROFESSORS: Baca, Brunk-Chavez, Cappell, Gunn, Jayasuriya, Mansfield-Kelley, Perrillo, Rohrleitner, Salinas, Ward, Yothers

LECTURERS: Al-Tabaa, Armendariz, Bronner, Cason, Fourzan, Gilden, Miller, Montoya, Mullins, Palmer, Sloane, Sobin, Thompson, Varela

Undergraduate Degree Requirements

Requirements for all undergraduate degrees from The University of Texas at

El Paso includes successful completion of ENGL 1312 or 1313 (or ESOL 1312). Course work toward this goal consists of a three-step program to develop college-level competence in composition, rhetoric, and research procedures. This program is designed to provide students with the skills in language and communication which they will need for the remainder of their undergraduate careers and for professional achievement in their selected fields following graduation.

Students place into a first-year composition course by virtue of their placement test scores. Students should be enrolled in a composition course every semester until they complete the first-year composition sequence. All students must present test scores for placement in the first-year composition program. For information concerning placement into the proper freshman composition courses, students should refer to the University College section, under Student Assessment and Testing, of this catalog.

Developmental English Program

The Developmental English Program prepares students for the first-year composition sequence. The program consists of ENGL 0111, 0310, and 0311. The program is located in Education 205; the phone number is (915) 747-5693.

English Degree Concentrations

Students are expected to consult with the Director of Literature, the Director of English Education, or the Director of Rhetoric and Writing Studies concerning the selection of concentrations and courses.

BA Degree Area – English and American Literature

Courses in the major are designed to enrich the students' understanding of life and the arts through the study of literature. After completing the first-year English requirement, students selecting the Literature degree plan take 36 hours of advanced level English courses: 3 hours each from 1 through 7 below; 6 additional hours in any one area chosen from 3 through 7 below; and 9 hours elective literature from any area(s) below.

1. Theory: ENGL 3300 Introduction to Literary Studies or ENGL 4314 Literary Criticism.
2. Shakespeare: ENGL 3320 Shakespeare or ENGL 3321 Shakespeare's Plays and Poetry.
3. Cultural Studies: ENGL 3302 Literature and Film, ENGL 3309 Detective Fiction, ENGL 3310 Chicana/o Literature, ENGL 3315 African American Literature, ENGL 3316 Native American Literature, ENGL 3317 Postcolonial Literature, ENGL 3325 Literature of the Bible, ENGL 3327 Jewish American Literature, ENGL 3328 Holocaust Literature and Film, ENGL 3360 Women in Literature, ENGL 3371 Southwestern Literature, ENGL 3372 Folklore and Mythology, or ENGL 3374 Folklore of the Mexican American.
4. British Literature Through 1800: ENGL 3318 British Literature before 1485, ENGL 3319 Sixteenth-Century Prose and Poetry, ENGL 3323 Seventeenth-Century Prose and Poetry, ENGL 3330 Restoration and Eighteenth-Century Literature, ENGL 4308 Chaucer, ENGL 4309 Milton, or ENGL 4347 British Novel through the Eighteenth Century.
5. British Literature Since 1800: ENGL 3304 Gothic Literature, ENGL 3333 Romantic Literature, ENGL 3337 Victorian Literature, ENGL 3343 British Poetry 1900 to the Present, ENGL 4325 British Drama since 1880, ENGL 4348 British Novel: Nineteenth Century, or ENGL 4349 British Novel: Twentieth Century.
6. American Literature Through 1900: ENGL 3311 American Literature to 1865, ENGL 4316 American Nonfiction and Poetry to 1900, ENGL 4317 American Fiction to 1900, or ENGL 4350 Major American Writer(s) through 1900.
7. American Literature Since 1900: ENGL 3312: American Literature 1865 to the Present, ENGL 3344 American Poetry 1900 to the Present, ENGL 4318, Early Twentieth-Century American Fiction, ENGL 4319 American Fiction 1945 to the Present, ENGL 4322 American Drama, or ENGL 4351 Major American Writer(s) since 1900.

Options:

--Variable Topics courses (may be used as elective credit; when applicable, may be counted towards an area, with the literature advisor's approval): ENGL 3301 Literary Studies, and ENGL 4340 Advanced Literary Studies.

--Other Elective Credits: other upper division English courses may count for elective credit, with the literature advisor's approval.

B.A. in English/Language Arts (with an Emphasis on Teaching)

This degree plan is designed for students who are interested in pursuing a teaching position in the secondary English/Language Arts classroom. Students selecting this degree option will take 36 hours from the following courses:

option will take 30 hours from the following courses.

3 Credits: British Literature Survey

Choose either

- ENGL 2311 English literature from its beginning through the 18th century or
- ENGL 2312 English literature from the Romantics to the present

3 Credits: Shakespeare

Choose either

- ENGL 3320 Shakespeare or
- ENGL 3321 Shakespeare's Plays and Poetry

3 Credits: British Literature

If 2311 has been taken, one of the following courses is required:

- ENGL 3333 Romantic Literature
- ENGL 3337 Victorian Literature
- ENGL 3343 British Poetry 1900 to the Present
- ENGL 4325 British Drama since 1880
- ENGL 4348 British Novel: Nineteenth Century
- ENGL 4349 British Novel: Twentieth Century

If 2312 has been taken, one of the following courses is required:

- ENGL 3319 Sixteenth-Century Prose and Poetry
- ENGL 3323 Seventeenth-Century Prose and Poetry
- ENGL 3330 Restoration and Eighteenth-Century Literature
- ENGL 4308 Chaucer
- ENGL 4309 Milton
- ENGL 4315 The Development of English Drama
- ENGL 4347 The British Novel through the Eighteenth Century

6 Credits: American Literature Survey

- ENGL 3311 American Literature to 1865
- ENGL 3312 American Literature 1865 to Present

3 Credits: Diverse Literatures

Choose one of the following:

- ENGL 3301 Literary Studies (*with approval*) or
- ENGL 3306 Young Adult Literature
- ENGL 3310 Chicana/o Literature
- ENGL 3315 African American Literature
- ENGL 3316 Native American Literature
- ENGL 3360 Women in Literature
- ENGL 4340 Advanced Literary Studies (*with approval*)

6 Credits: Language and Writing

- ENGL 3303 Grammar and Writing
- ENGL 3350 English Laboratory

6 Credits: Electives (Language, Reading, and Writing)

Choose two of the following:

- ENGL 3351 The Dynamics of Language
- ENGL 3352 Reading and Writing Nonfiction
- ENGL 3353 Reading and Responding to Literature
- ENGL 3365 Advanced Composition and Rhetoric
- ENGL 4357 Special Subjects in English for Teachers (*with approval*)

6 Credits: Theory and Practice

ENGL 3349 Drama in the Classroom

ENGL 4355 Teaching Composition and Literature in Secondary Schools

NB: Before students are given a bar code that will allow them to take the TExES test, they must successfully write a textual analysis essay, which will be evaluated by members of the English Education Program. Students who wish to take the TExES test must also earn a minimum score of 80% on the practice TExES test to be administered by the College of Education. Once these requirements have been met, students must then obtain the signatures of the Director of English Education and the Professor who teaches ENGL 4355.

Minors in English

There are three options for the minor in English, each of which requires the completion of 18 advanced hours:

1. Literature--3 hours, British literature before 1800; 3 hours, British literature since 1800; 3 hours, American literature; plus 9 elective hours in literature courses. (Note: ENGL 2311 and/or 2312 may be counted in the minor, but the remaining hours must be advanced hours.)
2. Composite--The students may elect to concentrate on a specific field such as Folklore, American Studies, Ethnic Studies, or Dramatic Literature, or may elect a more varied course of study. Students selecting this minor should consult with the director of the program in which they intend to complete most of their course work.
3. Professional Writing and Rhetoric--*Required Courses* (9 hours): ENGL 3359 Technical Writing (ENGL 3355 Workplace Writing may be substituted for English 3359 with permission of PWR Program Director), ENGL 3365 Advanced Composition and Rhetoric, ENGL 4300 Senior Writing Practicum. *Elective Courses* (9 hours): ENGL 3303 Grammar and Writing, ENGL 3355 Workplace Writing, ENGL 3357 Computers and Writing, ENGL 3358 Special Topics in Writing, or other writing-intensive courses as approved by the Director of Professional Writing and Rhetoric.

Minor in Screenwriting (Interdepartmental)

Eighteen hours of course work, twelve hours of which are required and six of which are from a menu of options, from the Departments of Communication, English, and Theatre Arts and Film to train students in the art of writing for the cinema.

Required Courses

ENGL 3361 Introduction to Creative Writing

ENGL 3369 Television and Screenplay Writing

THEA 3392 Radio, TV, and Film Scripting

or

THEA 4340 Selected Topics, when taught as Screenwriting II

or

COMM 4350 Selected Topics, when taught as From Script to Screen

Menu Options

THEA 4318 Playwriting

THEA 4340 Selected Topics, when taught as Structural Analysis of Scripts

ENGL 3367 Fiction Techniques

ENGL 3302 Literature and Film

ENGL 4340 Advanced Literary Studies, when taught as Screenplays as Literature

THEA 3325 Directing I

As a prerequisite to the program, students must take THEA 1390, Introduction to the Art of the Motion Picture, either as fulfillment of the Visual and Performing Arts Block of the Core Curriculum or as an elective. It is also recommended that students fulfill the Humanities Block of the Core Curriculum with ENGL 2314, Introduction to American Drama.

Teacher Certification

Students seeking secondary certification in English must complete the BA requirements as described above. Certification requires 36 semester hours of courses in the major as described in the Liberal Arts section of this catalog. Students should note that ENGL 4355 may not be counted as part of the major since it is required for the minor in Education. For further information on requirements for certification, students should refer to the catalog sections for the College of Liberal Arts and the College of Education.

Bilingual Professional Writing Certificate

Students in any major who have some fluency in both English and Spanish are eligible to pursue certification. They are required to pass, with a "B" or better, a combination of two English classes and two Translation classes in the Department of Languages and Linguistics. They then pass an exit exam to receive the certificate. For further information, consult either the Department of English or the Department of Languages and Linguistics.

English (ENGL)

0111 Expository Composition Workshop (1-0)

An intensive composition workshop focusing on issues relating to the writing process. *Corequisite*: ENGL 1311. *Prerequisite*: Placement by examination.

0310 Reading and Communication Skills (3-0)

Integrated instruction in the reading and writing processes. Emphasis is on (1) the connected nature of reading and writing, (2) the development of literal, inferential, analytical, and evaluative comprehension, and (3) the composition of paragraphs and essays addressing specific audiences and purposes. *Prerequisite*: Placement by examination.

0311 Basic English Composition (3-0)

Introduction to the writing process: prewriting, drafting, revision, and editing/proofreading; emphasis on adapting the writer's ideas and purpose to an audience. Editing skills (punctuation, spelling, grammar/usage) are presented within the context of the students' own writing. The course is designed as an introduction to English 1311 or English 1611. *Prerequisite:* Placement by examination.

1311 Expository English Composition (3-0)

( ENGL 1301)

Instruction in addressing academic writing tasks through the composing process, with emphasis on strategic use of language, of rhetorical form, and of authorial voice and point-of-view to inform and persuade effectively; development of critical thought through writing and reading complex discourse. *Prerequisite:* ENGL 0311 with a grade of "C" or better or placement by examination. (Non-native English speakers may substitute ESOL 1311).

1312 Research and Critical Writing (3-0)

( ENGL 1302)

Instruction in incorporating research into writing, with emphasis on 1) focusing questions, 2) using academic methods and resources, 3) learning to comprehend, analyze, synthesize, and critically evaluate materials, 4) shaping materials into coherent pieces of persuasive discourse appropriate to the writer's purpose and audience, and 5) understanding the logic and forms of documentation. *Prerequisite:* ENGL 1311, or ENGL 1611, or COMM 1611, with a grade of "C" or better, or placement by examination. (Non-native English speakers may substitute ESOL 1312.)

1313 Writing about Literature (3-0)

A research and writing course in the analysis and interpretation of literature, progressing from basic exegesis of diction and syntax to the broad range of critical and stylistic approaches to literary works. Strongly suggested as preparation for junior and senior level courses in literature. Required of all English majors in lieu of English 1312. Strongly advised for all English Education students. Fulfills the catalog requirements for English 1312. *Prerequisite:* ENGL 1311, or ENGL 1611, or COMM 1611, with a grade of "C" or better, or placement by examination.

1611 Written and Oral Communication (6-0)

Integrated study of and practice in oral and written communication, with emphasis on the processes leading to the creation of effective essays and speeches. Students are offered the opportunity to develop complementary skills of reading and listening through extensive response to others' written and spoken work. Counts for ENGL 1311 and COMM 1301. *Prerequisite:* ENGL 0311 with a grade of "C" or better or placement by examination.

2311 English Literature (3-0)

( ENGL 2322)

A study of British literature from its beginning to the late 1700s. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

2312 English Literature (3-0)

( ENGL 2323)

A study of British literature from the late 1700s to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

2313 Introduction to American Fiction (3-0)

( ENGL 2342)

Contemporary American works as well as the historical development of the short story and the novel. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

2314 Introduction to American Drama (3-0)

( ENGL 2343)

Study of the nature and variety of drama through examination of the contemporary Theatre and its historical development. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

2318 Introduction to American Poetry (3-0)

Study of the nature and forms of poetry through examination of modern poetry and its historical antecedents. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

2322 The Academic Vocabulary of English (3-0)

The study of English vocabulary with emphasis on the academic lexicon. Systematic review of Greek and Latin elements in English. Close attention to derivational patterns and lexical families. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3300 Introduction to Literary Studies (3-0)

An overview of various types of literary criticism, with particular attention to analysis of literary texts. This course or ENGL 4314 required of all majors in English and American literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3301 Literary Studies (3-0)

A study of special literary topics. May be repeated once for credit when topic varies. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3302 Literature and Film (3-0)

3302 Literature and Film (3-0)

A textual study of film and literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3303 Grammar and Writing (3-0)

A study of the theories and principles related to grammar and writing, as well as pragmatic applications for teachers. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3304 Gothic Literature (3-0)

A study of British, American, and world literatures in the gothic tradition. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3305 Children's Literature (3-0)

A survey of the major genres of literature for children from the seventeenth century to the present, including traditional to contemporary poetry, folk and fairy tales, fantasy, realistic fiction, biography, and informational books. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3306 Young Adult Literature (3-0)

Study of major works of literature that appeal to the young adult reader, with emphasis on contemporary novels and short stories. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3307 English Phonetics and Phonology (3-0)

Linguistic analysis of the sound system and the orthography of English. Course oriented toward the needs of teachers of English at all levels. Same as LING 3307. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3309 Detective Fiction (3-0)

A study of detective novels, short stories, and their writers. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3310 Chicana/o Literature (3-0)

A study of Chicana/o literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3311 American Literature to 1865 (3-0)

Representative writers from the Pre-Colonial period to 1865, with emphasis on major figures. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3312 American Literature 1865 to the Present (3-0)

Representative writers from 1865 to the present, with emphasis on major figures. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3313 English Historical Linguistics (3-0)

The development of English from its beginnings to Modern English. A study of the changes in the phonological, morphological, and syntactic systems. *Prerequisite:* ENGL 2311 or ENGL 2312 or LING 2320 or ANTH 3320 or ENGL 2320 with a grade of "C" or better.

3314 The Structure of English for Language Professionals (3-0)

An examination of the structure of English in a descriptive framework. Structural phenomena analyzed in the context of teaching grammar to native and non-native speakers of English. Same as LING 3314. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3315 African American Literature (3-0)

A study of African American literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3316 Native American Literature (3-0)

A study of Native American literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3317 Postcolonial Literature (3-0)

A study of literatures produced by writers who come from countries with a history of colonialism. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3318 British Literature before 1485 (3-0)

A study of literature arising in the British Isles before 1485. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3319 Sixteenth-Century Prose and Poetry (3-0)

A study of British prose and poetry of the sixteenth century. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3320 Shakespeare (3-0)

A study of selected comedies, histories, tragedies, and romances of William Shakespeare. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3321 Shakespeare's Plays and Poetry (3-0)

A study of selected comedies, histories, tragedies, and romances of William Shakespeare, as well as his poetry. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3323 Seventeenth-Century Prose and Poetry (3-0)

A study of British prose and poetry of the seventeenth century. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3325 Literature of the Bible (3-0)

A study of the English Bible as literature and as a source of literary allusion. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3327 Jewish American Literature (3-0)

A study of Jewish American literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3328 Holocaust Literature and Film (3-0)

A study of Holocaust literature and film. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3330 Restoration and Eighteenth-Century Literature (3-0)

A study of British prose, poetry, and drama from 1660 to the end of the eighteenth century. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3331 World Literature (3-0)

Study of a selected world literature and culture in translation. Topics and authors to be determined by professor. Course may be taken more than once for credit when the topic varies. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3333 Romantic Literature (3-0)

A study of British prose, poetry, and drama of the Romantic period. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3337 Victorian Literature (3-0)

A study of British prose, poetry, and drama of the Victorian period. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3341 History of Form I (3-0)

Studies in the history and theory of literary forms with a focus on one genre, such as the novel, short story, poetry, or drama. Topics may vary. Required for creative writing majors. (Satisfactory fulfillment of History of Form I and concurrent enrollment in History of Form II, or vice-versa, is a prerequisite for enrollment in CRW 3362, Introduction to Creative Writing for Majors.) *Prerequisite:* ENGL 1312 or ENGL 1313, or ESOL 1312.

3342 History of Form II (3-0)

Studies in the history and theory of literary forms with a focus on one genre, such as the novel, short story, poetry, or drama. Topics may vary. Required for creative writing majors. (Satisfactory fulfillment of History of Form I and concurrent enrollment in History of Form II, or vice-versa, is a prerequisite for enrollment in CRW 3362, Introduction to Creative Writing for Majors.) *Prerequisite:* ENGL 1312 or ENGL 1313, or ESOL 1312.

3343 British Poetry 1900 to the Present (3-0)

A study of British poetry from 1900 to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3344 American Poetry 1900 to the Present (3-0)

A study of American poetry from 1900 to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3349 Drama in the Classroom (3-0)

A study of the theoretical and practical uses of the principles of drama with an emphasis on critical inquiry and reflective writing. For elementary, middle, and high school teachers. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3350 English Laboratory (3-0)

Practice in designing, implementing, and analyzing one's own and others' teaching lessons, with an emphasis on pedagogical case methodology. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3351 The Dynamics of Language (3-0)

This course will focus on the four language arts of listening, speaking, reading, and writing, with an emphasis on the oral delivery of language, to include reading aloud, storytelling, and readers' theatre. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3352 Reading and Writing Nonfiction (3-0)

A study of nonfiction for adolescents from both a reading and writing perspective. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3353 Reading and Responding to Literature (3-0)

----- Reading and Responding to Literature (3-0)
This course will focus on literature for preteen and early adolescent readers, with an emphasis on both critical and imaginative responses. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3355 Workplace Writing (3-0)

A course that focuses on critical decision making in professional contexts. Principles of professional rhetoric are applied to the composing process; strategies for planning, organizing, drafting, and presenting written and oral communication for a workplace context are emphasized. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3357 Computers and Writing (3-0)

A variable topics writing class exploring the connections between computers and writing. Course may be repeated when topic changes. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3358 Special Topics in Writing (3-0)

An advanced writing course emphasizing topics in professional writing and rhetoric. Course may be repeated when the topic changes. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3359 Technical Writing (3-0)

A professionally oriented communication course centered on assembling, organizing, drafting, revising, and presenting technical information for generating written documents and oral reports. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3360 Women in Literature (3-0)

A study of literature by women writers. May be repeated once for credit when the topic changes. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3365 Advanced Composition and Rhetoric (3-0)

Study of classical and contemporary rhetorical theory with emphasis upon the aims and modes of contemporary discourse; practice in techniques of invention, organization, and style as applied to written composition. Open to freshmen exempted from ENGL 1312. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3366 Advanced Composition II (3-0)

This course continues the development of argumentative writing by examining contemporary issues and ethical questions. The course will be project-based, will include collaborative work, and will emphasize stylistics. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3371 Southwestern Literature (3-0)

A study of literature of the Southwest. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3372 Folklore and Mythology (3-0)

A study of various folk literatures and mythologies. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

3374 Folklore of the Mexican American (3-0)

A study of Mexican-American folk genres and folklore theory. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4300 Senior Writing Practicum (0-0-3)

Required for Professional Writing and Rhetoric minors. Directed study to be taught with the consent of the professor and with the approval of the Department Chairperson. Advanced writing Practicum aimed toward design and completion of a senior project. Students will submit a Practicum proposal and engage in all aspects of a professional-level writing project. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4308 Chaucer (3-0)

A study of the works of Geoffrey Chaucer. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4309 Milton (3-0)

A study of the works of John Milton. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4314 Literary Criticism (3-0)

The theory and application of several major critical approaches to the study of literature. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4316 American Nonfiction and Poetry to 1900 (3-0)

A study of American nonfiction and poetry to 1900. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4317 American Fiction to 1900 (3-0)

A study of works of fiction by American writers to 1900. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4318 Early Twentieth-Century American Fiction (3-0)

A study of works of fiction by American writers from 1900 to 1945. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4319 American Fiction 1945 to the Present (3-0)

A study of works of American writers from 1945 to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4322 American Drama (3-0)

A study of American dramatic works. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4325 British Drama since 1880 (3-0)

A study of British dramatic works from 1880 to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4340 Advanced Literary Studies (3-0)

An advanced study of a special literary topic. May be repeated once for credit when the topic changes. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4347 British Novel through the Eighteenth Century (3-0)

A study of the British novel to 1800. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4348 British Novel: Nineteenth Century (3-0)

A study of British novels of the 1800's. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4349 British Novel: Twentieth Century (3-0)

A study of British novels from 1900 to the present. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4350 Major American Writer(s) through 1900 (3-0)

A study of the works of a major American writer or group of writers. Primary attention given to works produced through 1900. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4351 Major American Writer(s) since 1900 (3-0)

A study of the works of a major American writer or group of writers since 1900. Primary attention given to works produced since 1900. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4354 Writing Processes of Children (3-0)

Current theory and practice in K-8 writing development; review of applicable rhetorical and linguistic theories; evaluation and assessment of written work; relationships between reading and composition. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4355 Teaching Composition and Literature in the Secondary School (3-0)

Current theory and practice in teaching writing and literature in the secondary schools; review of applicable research along with practices for teaching literature and the composing process. Field experience may be required. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4357 Special Subjects in English for Teachers (3-0)

Special subjects in teaching elementary or secondary school English language arts. Topic may vary. May be repeated for credit when the topic varies. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4390 Directed Study (0-0-3)

Individual directed study on an approved topic, to be taught with the consent of the professor and with the approval of the department chairperson. For English majors only.

LING 2330 and LING 3308 may be taken for English credit (see advisor for special prerequisites).

Students majoring in English are also encouraged to consider taking courses, or to fulfill requirements for the minor, in Translation (TRAN). Students should refer to the Translation section of the Department of Languages and Linguistics course offerings for details.

See the *Graduate Catalog* for graduate programs and courses.

✦ Indicates Texas Common Course Number

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History

320 Liberal Arts
(915) 747-5508
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CHAIRPERSON: Paul Edison
PROFESSORS EMERITI: Kenneth K. Bailey, Robert Righter, Kenneth B. Shover, Wilbert Helde Timmons
PROFESSORS: Ambler, Jackson, Kawashima, C.E. Martin, McGee Deutsch
ASSOCIATE PROFESSORS: Brunk, Chavez, Dailey, Edison, Hackett, Leyva, C.H. Martin, Topp, Weber
ASSISTANT PROFESSORS: Fan, Lightfoot, Schiavone-Camacho, Shepherd

BA Degree in History

Specific course requirements for History majors are HIST 2301-2302 and HIST 4325 and 21 advanced (3300-4300 level) hours of history courses, which must include courses from at least three of four fields; no more than 12 hours may be taken in any one field of history.

Departmental Honors

A candidate for departmental honors in History must have demonstrated ability in history, must normally have a grade point average (GPA) of 3.5 in history and 3.0 overall by the end of the junior year, and must maintain these averages until graduation. To graduate with Departmental Honors, a student must satisfactorily complete an honors thesis, which will be judged by a thesis committee. A candidate for Departmental Honors must request approval of candidacy during the second semester of the junior year. The Department reserves the right to accept or reject any student, taking into consideration the number of applicants, availability of faculty, and competence of individual students. Once accepted, the honors candidate will enroll in HIST 4390 during both semesters of the senior year, accumulating a total of 6 hours of 4390 credit on completion of the honors program. Students can contact the chairperson or the undergraduate advisor for further information.

Minor in History

Students wishing to minor in History are required to complete HIST 2301 and 2302, plus 12 hours of advanced (3300-4300 level) courses in History. The 12 hours of advanced courses must include courses from at least two of the history fields.

Teacher Certification

Students seeking secondary school certification in History may choose from two different degree options. Under the first plan, students will follow the requirements for the history major as outlined above and complete a minor in secondary education. HIST 3317 and 4330 are required for this track, which will lead to certification specifically in History. Under the second plan, which combines History with social studies, students will take a modified list of history courses including HIST 3317, 4325, and 4330. They must also take ECON 2303 and 2304, GEOG 1306 and 1310 (also available as ANTH 1310 and SOCI 1310), and two upper-division Political Science courses. This curriculum will lead to certification in History, Economics, Geography and Political Science. For further information on requirements for certification, students can refer to the catalog sections for the College of Liberal Arts and the College of Education. Students interested in either of these certification options should consult with the undergraduate advisor of the Department of History, the College of Liberal Arts advisor for secondary education certification, or the College of Education.

History (HIST)

1301 History of the United States to 1865 (3-0)

(HIST 1301)

Survey of American history through the Civil War, emphasizing the European background, the colonial contribution, the American Revolution, the republican government, growth of democracy, and the background and course of the Civil War. With HIST 1302, fulfills the statutory requirement for American History.

1302 History of the United States since 1865 (3-0)

(HIST 1302)

Reconstruction, rise of big business, clash of economic interests, struggle for reform, imperialism, and world power status. Progressivism, World War I, the Twenties, the New Deal, World War II, post-war America. With HIST 1301, fulfills the statutory requirement for American History.

2301 World History to 1500 (3-0)

(HIST 2321)

An analysis of the development of societies in Asia, Africa, Europe, and the Americas from the origins of mankind to 1500 CE. Societies throughout the world are examined with an emphasis on the rise of empires, the evolution of diverse social systems, and the emergence of distinctive cultures.

2302 World History since 1500 (3-0)

(🗑️ HIST 2322)

An analysis of the development of societies in Asia, Africa, Europe, and the Americas from 1500 to the present, with an emphasis on their global interactions. Societies throughout the world are studied within the context of growing international contacts, the establishment of European dominance during the 19th century, and the global conflicts and challenges of the 20th century.

General Prerequisite: Appropriate class standing for all upper-division courses.

Field I: The United States

3301 Colonial America to 1763 (3-0)

Background of European exploration and colonization, settlement and development of the English colonies, British imperial policy, and the Anglo-French conflict in North America.

3302 The American Revolution and the New Nation, 1763-1815 (3-0)

The breakdown of the Anglo-American political system, the development of American political principles, the War for Independence and social readjustment, the creation of new governments, the rise of political parties, the Federalist and Jeffersonian administrations, the War of 1812, and the emergence of national character.

3303 The U.S.-Mexican War (3-0)

Studies the war of 1846-1848 in the social and political context of early nineteenth-century Mexico and United States. Emphasis on the military and diplomatic events of the war and the impact of the war on Mexico, the United States, and the border region.

3304 The Age of Jackson, 1815-1850 (3-0)

Political, economic, social, and sectional aspects of the Jacksonian era. The Old South and slavery, the North and reform, Manifest Destiny, nativism, and the disruption of the political party system.

3305 The Civil War and Reconstruction Era, 1850-1877 (3-0)

The Civil War and Reconstruction: breakdown of the political party system, election of Lincoln, outbreak of war, union and confederacy, military problems, nations at war, reconstruction conflicts, triumph of radicalism, and compromise of 1876.

3306 From Plutocracy to Progressivism, 1877-1917 (3-0)

Focuses on the incorporation and urbanization of the United States, the end of the frontier, immigration to the United States, the rise of organized labor and populism, attempts at protest and reform, the pursuit of a colonial empire, and World War I and its consequences.

3308 The United States since 1941 (3-0)

The domestic history of the United States since 1941. Major topics include the home front during World War II, the Red Scare, the expansion of the welfare state, the civil rights movement, the impact of the Vietnam War, and the Reagan revolution.

3309 Mexican American History (3-0)

A survey of Mexican Americans in the southwestern U.S. since the Treaty of Guadalupe Hidalgo, with emphasis on interactions between Mexican and Anglo-American cultures.

3310 American Legal History (3-0)

Study of the growth of American law from colonial times to the present. Particular emphasis on the operation of the law in a broad social context. Strongly recommended for Pre-Law students.

3311 History of American Foreign Relations to 1914 (3-0)

Analysis of the diplomacy of the American Revolution and of the new nation; diplomatic aspects of the War with Mexico and continental expansion, and the rise of the United States to world power in the late nineteenth and early twentieth centuries, with emphasis on imperial expansion overseas.

3312 History of American Foreign Relations since 1914 (3-0)

Analysis of 20th century American diplomacy, including the diplomatic aspects of the two world wars, the origins and development of the Cold War with the Soviet Union, and the American response to Third World nationalism including the war in Vietnam.

3313 American Military History (3-0)

A study of American military history from colonial times to the present. The course begins with a consideration of the origins of the American military system in seventeenth-century England and concludes with a discussion of issues of contemporary military affairs. Both the problems faced by the American military and the relationships of the military to the rest of American society are examined.

3317 History of Texas since 1821 (3-0)

3317 History of Texas Since 1821 (3-0)

Spanish and Mexican Texas, Anglo-American colonization, the Texas Revolution, the Republic, statehood, Civil War and Reconstruction, railroad and industrial growth, political, social, and economic trends in the twentieth century, and ethnic and racial change. Note: History majors may count this course in either Field I or Field III.

3321 19th Century American West (3-0)

Focuses on the frontier and the American character, the westward movement to the Pacific Slope, conflict with the American Indian and other ethnic and minority groups, women and the West, and exploitation of the natural resources. The course will center on the Trans-Mississippi frontier with emphasis on the arid West.

3322 20th Century American West (3-0)

Examines the new West in terms of conservation policies, natural resource issues, urbanization, tourism, economic development, immigration, and cultural conflict. Regions covered include the Great Plains, the Rocky Mountain states, the arid West, and the Pacific Slope.

3323 American Indian History (3-0)

A survey of the history of North American Indians from the Pre-Columbian period to the present. Examines inter-tribal relations as well as Indian-European and Indian-Anglo American interactions. Emphasis on trans-Mississippi West tribes and events.

3324 The United States in Vietnam and Southeast Asia (3-0)

American relations with Southeast Asia in the twentieth century, focusing on the American acquisition and governance of the Philippines, the American response to Asian nationalism during and after World War II, and the war in Vietnam.

3325 History of Immigration and Ethnicity in the United States (3-0)

Explores the social, political, cultural, and religious lives of the diverse peoples who immigrated to the United States, as well as their impact on the political and cultural life of the United States as a whole. Primary focus on second-wave immigrants, including Southern and Eastern Europeans, and on Asians and Mexicans.

3326 Life and Labor in the United States in the 19th and 20th Centuries (3-0)

Examines why so few American workers are in unions today, and why the United States is virtually the only Western industrialized nation without a labor party. Explores the history of the cultural and political life of the American working class covering topics ranging from the impact of slavery and immigration to the historic relationship between unions and the Democratic Party to recent organizing efforts.

3328 History of Hispanic Peoples in the United States (3-0)

Traces the historical experiences of the Mexican, Puerto Rican, Cuban, and other Hispanic migrants to the United States; investigates the causes of their migrations, the communities they formed in the United States, their problems of adjustment, the cultural changes they have undergone, and the similarities and differences among their cultures.

3329 African American History (3-0)

A survey of the African American experience, focusing on African heritage, slavery, segregation, the Civil Rights Movement, institutional and organizational growth and development, identity formation, leadership, and gender questions. These topics will be explored within the historical process and context of nomenclature changes from African to African American.

Field II: Africa, Asia, and Russia

3330 East Asia (3-0)

A brief survey of traditional China, Korea, and Japan, westernization and modernization, and East Asia in the twentieth century. Special emphasis on the uniqueness of East Asian societies and on the differences among these countries.

3333 The Soviet Union (3-0)

A history of the USSR including the Russian revolutions of 1917, revolutionary experimentation in the 1920s, collectivization, industrialization, and the purges in the 1930s, World War II, and an overview of Soviet life in the 1970s and 1980s.

3337 Modern Africa (3-0)

Examination of Africa from the imperial conquest of the late nineteenth century to the present day. Emphasis on the social, economic, and cultural impact of colonialism, religious change, African nationalism, decolonization and independence, the struggle for development, and racial conflict in South Africa. Primary focus is on Africa south of the Sahara.

3339 Pyramids and Prophets: Ancient Egypt, Mesopotamia, and Palestine (3-0)

Examines the distinct series of circumstances that led to the development of civilization in the Ancient Near East. Emphasis is upon the government, society, religion, art, and manners that evolved through the eras of Stone Age nomads, Bronze Age temple-states, and Iron Age kingdoms.

3340 The Middle East and Islam (3-0)

The rise and expansion of Islam, the golden age of Arab culture, the Ottoman Empire, the impact of European imperialism, the economics of oil, the Arab-Israeli conflict, and present-day Muslim revitalization.

Field III: Latin America

3342 The Spanish Borderlands (3-0)

A study of the Spanish northern frontier in North America from California to Florida with particular emphasis on the Spanish impact on the American Southwest from the sixteenth-century explorations to 1821. Note: History majors and minors may count this course in either Field I or Field III.

3346 Central America and the Caribbean (3-0)

Social, economic and political patterns in Central America and in the Spanish-, English-, French-, Dutch-, and Creole-speaking Caribbean, emphasizing the twentieth century. Topics include race relations, ideological struggle, nationalism, popular culture, and U.S. involvement.

3347 South America since 1810 (3-0)

The politics, economy, culture, and international relations of South America, emphasizing Argentina, Brazil, and Chile.

3348 Environmental History of Latin America (3-0)

Traces the environmental history of Latin America from pre-Columbian times to the present. Among the issues it will examine in detail are the environmental results of the arrival of Europeans, the ongoing destruction of rain forests, environmentalism, the impact of urbanization, and the environment on Mexico's border with the United States.

3349 History of Mexico to 1900 (3-0)

The Pre-Columbian civilizations, the conquest, Spanish institutions and culture, the Mexican movement for independence, the era of Santa Anna, Juárez and the Reform, and the Díaz regime.

3350 The Mexican Revolution (3-0)

The background of the Revolution; political, social, economic, and military developments of the Mexican Revolution; and Mexico since the Revolution.

Field IV: Europe, Except Russia

3360 Ancient Greece (3-0)

Surveys the development of Greek society and government from the Bronze Age palace cultures of Crete and Mycenae to the aftermath of the Peloponnesian War. Special emphasis on the evolution of the polis system with consideration of Greek art and literature.

3361 Hellenism and the Coming of Rome (3-0)

Examines how the attitudes and institutions of the Roman city-state energized the conquest of the Mediterranean Basin and then disintegrated into civil war. Special emphasis upon the importance of Alexander the Great and Hellenistic culture in Roman development.

3362 The Medieval World (3-0)

A survey of the period in Western Europe from about 500 to about 1300, focusing especially on the nature and accomplishments of the revolutionary new society which emerged in the three centuries following the invasions of the ninth and tenth centuries.

3363 The Roman Empire (3-0)

Examines the culture that evolved from the chaos of the Roman Republic into the religious, administrative, economic, and legal apparatus that formed the theoretical basis of the first European state systems. Attention shall focus on the development of Christianity and the expressions of Roman ideals in art and literature.

3364 The Age of Renaissance (3-0)

A survey of Western Europe in the fourteenth, fifteenth, and early sixteenth centuries, focusing especially on the great age of the Renaissance in Italy and including an analysis of some of the most famous art and artists of the period seen in their historical context.

3365 The Age of the Reformation (3-0)

A survey of Western Europe in the sixteenth and first half of the seventeenth centuries, focusing on the Reformation and its consequences and including an analysis of the social, economic, political, and intellectual changes that accompanied that split and that ushered in the modern world.

3366 The Age of Absolutism and Enlightenment (3-0)

A survey of Western and Central Europe in the second half of the seventeenth and the eighteenth centuries (until 1789), focusing on the development of absolutism and its alternatives, the scientific revolution, the Enlightenment and the growth of modern rationalism, popular culture and the growing social and institutional crisis in France before the French Revolution.

3367 The French Revolution and Napoleonic Eras (3-0)

An exploration of the French Revolution, which changed the face of Europe and ushered in the modern world. Topics include eighteenth-century origins, the liberal Revolution of 1789, the Terror, Napoleon Bonaparte, the Revolution's impact on Europe and beyond, and recent debates over its meaning and legacy.

3368 Nineteenth Century Europe, 1815-1900 (3-0)

A study of Europe in a process of fundamental economic, political, and social change, with emphasis on the revolutionary movements of the 1820s, 1830s, and 1848, the unification of Italy and Germany, the emergence of parliamentary democracies in France and England, and the development of nationalism, conservatism, liberalism, and socialism.

3369 Twentieth Century Europe, 1900 to the Present (3-0)

The collapse of the European dynastic monarchies, World War I, the Versailles Treaty, totalitarian dictatorships in Italy, Germany, and Russia, World War II, the Cold War, and the Common Market era.

3370 The Holocaust in Europe, 1933-1945 (3-0)

An analysis of the background, causes, events, and aftermath of the destruction of European Jewry in the era of the Second World War; the fate of Gypsies and other victims of Nazi racial policies; and the role of individuals of various nations as perpetrators, bystanders, resisters, and rescuers during that era.

3374 Modern Germany since 1866 (3-0)

The emergence of a unified German national state, relations with neighboring powers, World War I, the revolution of 1918, the Weimar Republic, rise and fall of the Third Reich, and divided Germany.

3381 The History of Spain and Portugal (3-0)

A survey of the Iberian Peninsula from the earliest times to the regimes of Franco and Salazar, with particular emphasis on the rise, development, and decline of the Spanish and Portuguese empires. Note: History majors may count this course in either Field III or Field IV.

3382 Spain in the Age of Expansion, Eighth-Sixteenth Centuries (3-0)

Analysis of the success, then the downfall, of the Muslims; the simultaneous rise of the Christian kingdoms which became Castile, Portugal, and Aragon-Catalonia; the unification of Spain and the conquest of empire; and the character of the societies and intellectual, religious, and artistic currents they produced.

Other Courses

3390 History, Special Topics (3-0)

An examination of a currently relevant subject from a historical perspective. Topics will vary and will be drawn from such fields as minority groups, women's history, local history, ecology, historical methodology, and the relationship of history to other social sciences. History majors and minors should count the course in the appropriate field.

3391 History of Women (3-0)

An examination of the values, roles, and contributions of women in various historical contexts. May be repeated once for credit when topic changes. History majors and minors should count the course in the appropriate field.

4325 Junior-Senior Seminar (3-0)

Readings and discussion on a major issue in history, and individual research into a related topic. The course theme will change from semester to semester. Junior or senior standing required. Required of all History majors; open to History minors and others by permission.

4330 Teaching Social Studies in the Secondary School (3-0)

The capstone course for prospective teachers of history and social studies at the secondary level. Reviews content knowledge as applicable to secondary education, and equips students with a variety of teaching methods for the history and social studies classroom. *Prerequisites:* Senior standing and SCED 3311 with a grade of "C" or better.

4390 Directed Study (0-0-3)

Individual directed study on approved topic; to be taught at the consent of the professor and with the approval of the department chairperson. History majors and minors should count the course in the appropriate field. *Prerequisite:* Department approval.

See the *Graduate Catalog* for graduate programs and courses.

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Humanities

233 Liberal Arts Bldg.
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DIRECTOR: Ronald Weber
PROFESSORS: Haddox, Loudon
ASSOCIATE PROFESSORS: Best, Johnson, Ruiter, Simon, Springer, Weber
ASSISTANT PROFESSOR: Simon
LECTURERS: Montoya, Nemeth-Jesurun, Wren

Each of the classes in the Humanities Program (HUMN 3301, 3302, and 3303, and 4390) fulfills the upper division Humanities electives for all students and the upper division Humanities block for all students in the College of Liberal Arts. Courses in the Humanities Program are an exciting and challenging way to satisfy all upper division humanities requirements. Whatever one's major, as one approaches the end of the college career these dynamic courses are the ideal way to bring meaning and structure to all of the diverse subjects and experiences that make up a college career. Humanities students question the world. Through shared inquiry of history's great ideas and creations students evaluate our cultural and intellectual heritage, exploring such basic human questions as how we learn; the nature of the state; the rights and responsibilities of individuals in the community; concepts of human nature; the human species as victim, antagonist, or part of nature; the supernatural; esthetics; and technology. HUMN 3301, 3302, and 3303 are also offered in a totally online format.

Minor in Humanities

Students can fashion a minor concentration in the Humanities based upon their own plans and interests.

Complete 6-hours from the Humanities sequence and 3 hours of Humanities 4390 plus 9 hours of advanced level courses to include courses from Art, Communication, Music, Literature, Religious Studies, Jewish Studies*, Theatre Arts, Humanities, Languages and Linguistics*, History, Philosophy, Women's Studies*, Chicano Studies* and African American Studies*.

All students should design a proposal for a coherent course of study. All proposals must be approved by the Director of the Humanities Program and be on file in the Humanities Office.

* Apply to Humanities Minor when topics are from the Humanities.

Humanities (HUMN)

3301 Backgrounds and Foundations (3-0)

Examines the significant texts and cultural developments in the ancient and foundational societies such as the Ancient Near East, Classical Greece and Rome, and Ancient China, through close study of the Literature, history, philosophy, and arts of these civilizations. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3302 From Faith to Reason (3-0)

Surveys the art, philosophy, and history that inform the social, political and religious institutions of World Culture from the 3rd century CE to approximately 1600 CE. The survey examines the art of the era, relating them to political and social-historical contexts. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3303 Challenges of Modern Culture (3-0)

The purpose of this course is to examine the complexity and diversity of the many extensions of World Culture through the survey of four major revolutions that were instrumental in shaping the modern world from about 1600 to the present. These include the scientific, the social, the industrial, and the artistic. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

4390 Special Topics in Humanities (3-0)

Advanced study of a special topic such as Postmodern Culture, Western and Non-Western Cultures, the Cultures of the Humanities and the Sciences, and other areas of special interest in the Humanities. Topic varies with professor in charge. May be repeated for credit when the topic varies. Specific Topics courses are often cross-listed in other departments. At least one Special Topics course is presented in each semester and in the Maymester to support the Humanities Minor. *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.



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Languages and Linguistics

137 Liberal Arts
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CHAIR: Kirsten F. Nigro
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ASSOCIATE PROFESSORS EMERITA: Sandra Beyer, Eleanor Greet Cotton
ASSOCIATE PROFESSOR EMERITUS: Frederick Kluck
ASSOCIATE PROFESSORS: Armengol, Garabano
ASSISTANT PROFESSORS: Blume, Courtney, Evans, Pérez del Solar, Urzúa
LECTURERS: Awila, Fontaine, Enriquez, Gámez, Izadi, Jenerett-Ware, Khatib, Nodjimbadem, Schmidt, Suárez

Major in Languages

BA Degree

Students may earn a BA in French or Spanish: 30 semester hours, at least 24 of which must be advanced (3300-4300) level. 1301-1302 may not count toward the major. Courses 2301 and 2302 or 2303 and 2304 must be completed in a language other than the major in order to fulfill the Liberal Arts language requirement. The Spanish major must include 1) SPAN 3300 and SPAN 3357; 2) SPAN 3320 or SPAN 3330; 3) at least two of the following: SPAN 3301, SPAN 3302, SPAN 3303, SPAN 3304; 4) at least one of the following: SPAN 3309, SPAN 3311, SPAN 3315; and 5) at least six hours of 4300-level courses. PORT 4390 and/or any one translation (TRAN) course may count toward the Spanish major.

Minor in Languages

The basic requirement is 18 hours in a language, at least 12 of which must be advanced (3300-4300) level. SPAN 3357 is required for the Spanish minor.

Major in Linguistics

BA Degree

LING 2320, LING 3301, LING 3302, LING 4316, and either (1) an additional 15 semester hours in Linguistics courses at the 3000-4000 level, or (2) an additional 12 semester hours in Linguistics courses at the 3000-4000 level plus LING 2322.

Minor in Linguistics

LING 2320, and either LING 3301 or LING 3302, and (1) an additional 12 semester hours in Linguistics courses at the 3000-4000 level, or (2) an additional nine semester hours in Linguistics courses at the 3000-4000 level plus LING 2322.

Placement Examinations

Spanish

Courses at the elementary and intermediate level in Spanish are of two types: Spanish for Non-Native Speakers (SPAN 1301-1302-2301-2302) and Spanish for Spanish Speakers (SPAN 2303-2304). Students with no knowledge or very little knowledge of Spanish will register for SPAN 1301. Those who have acquired a significant knowledge of the language (by taking two or more years of high school Spanish) are strongly urged to take the Placement Exam. Those who know Spanish by virtue of using it with family or friends MUST take the Spanish Placement Exam before enrolling. The Placement Exam is offered by the Student Assessment and Testing Office, 127 Academic Advising Center (915-747-5009 for schedule). The Department of Languages and Linguistics reserves the right to rectify errors in placement caused by a student's failure to observe these guidelines, including the option to drop a student enrolled in an inappropriate course. Students who take the Placement Exam and place out of one or more courses will receive equivalent credit upon completion, with a grade of "C" or better, of the course into which they have placed. No credit is granted by examination only. For further information, including information about the CLEP and AP exams, students should consult the Spanish advisor.

French

Students who have acquired a significant knowledge of French through high school study (usually two years or more) or by some other means are urged to take the French Placement Exam before enrolling. The Exam is offered by the Student Assessment and Testing Office, 127 Academic Advising Center (915-747-5009 for schedule). The Department of Languages and Linguistics reserves the right to rectify errors in placement caused by a student's failure to observe these guidelines, including the option to drop a student enrolled in an inappropriate course. Students who take the Placement Exam and place out of one or more courses will receive equivalent credit upon completion, with a grade of "C" or better, of the course into which they have placed. No credit is granted by examination only. For further information, including information about the CLEP and AP exams, students should consult the French advisor.

Latin, Portuguese, and German

Students who have acquired a significant knowledge of any of these languages through high school study (usually two years or more) or by some other means are urged to

consult the department's placement director for advising. Students with no or inadequate knowledge of either of these languages should enroll in the first-semester course.

ESOL

A placement exam is required of all students who were admitted based on TOEFL (less than 600) or PAA scores. Information about testing schedules is available from the Student Assessment and Testing Office (915-747-5009).

Teacher Certification

Programs, which combine the BA degree with secondary certification, are available in French and Spanish. An endorsement is also available for ESL. Several Linguistics/Spanish courses are required for certification in Bilingual Education. Interested students must consult with the departmental undergraduate advisor. Certification for secondary teaching in the following three areas requires the courses listed.

Secondary certification in French requires 36 hours in the major (which may include FREN 1301, FREN 1302, FREN 2301, and FREN 2302). FREN 3301 or FREN 3303 and FREN 3357 are required; FREN 3320 is highly recommended. FREN 3305 and FREN 3355 are recommended for students who are not native speakers of French. Note that FREN 4301 may not be counted as part of the major since it is a required course for the minor in Education. In addition, a passing score on the Texas Oral Proficiency Test (TOPT) is required for certification.

Spanish All requirements for the BA degree, as described above, must be met. Secondary certification requires 36 hours in the major (which may include SPAN 1301, SPAN 1302, and SPAN 2301 and SPAN 2302 or SPAN 2303 and SPAN 2304). Note that SPAN 4301 may not be counted as part of the major since it is a required course for the minor in Education. In addition, a passing score on the Texas Oral Proficiency Test (TOPT) is required for certification.

Approved supporting fields for languages are any other language or the 12 hours of course work approved for the ESL endorsement. For further information on certification requirements, students should consult the catalog sections for the College of Liberal Arts and the College of Education.

Bilingual Professional Writing Certificate

Students in any major who have some fluency in both English and Spanish are eligible to pursue certification. They are required to pass, with a "B" or better, a combination of two English classes and two Translation classes. They then pass an exit exam to receive the certificate. For further information, consult either the Department of English or the Department of Languages and Linguistics.

English for Speakers of Other Languages (ESOL)

1305 Oral Communication Skills for Non-Native Speakers of English (3-0)

Practice in spoken English to improve fluency and develop strategies to improve communication skills. Topics will vary. May be repeated for credit when topics vary.
Prerequisite: ESOL 1610 with a grade of "C" or better.

1309 Writing and Reading in English for Non-Native Speakers (3-0)

Development of writing ability, strategies for the writing process, reading fluency, and vocabulary for non-native speakers of English. *Corequisite:* ESOL 1406. *Prerequisite:* ESOL 1610 with a grade of "C" or better or placement exam.

1310 Reading English as a Second Language (3-0)

Practice in reading academic, informative, and literary texts, with emphasis on vocabulary development, textual analysis, and critical thinking. Study of library research and documentation techniques. *Prerequisites:* ESOL 1309 and ESOL 1406, each with a grade of "C" or better, or placement exam. This course is obligatory for all ESOL students and must be taken prior to or concurrently with ESOL 1312.

1311 Expository English Composition for Speakers of ESL (3-0)

(👉 ENGL 1306)

Practice in composition with emphasis on rhetorical and writing principles for the different expository modes; emphasis on style and variety in sentences, paragraphs, and essays; stress on reading comprehension and outlining. *Prerequisites:* ESOL 1406 and ESOL 1309, each with a grade of "C" or better, or placement exam. ESOL 1311 may be taken concurrently with ESOL 1310.

1312 Research and Critical Writing for Speakers of ESL (3-0)

(👉 ENGL 1307)

Study and practice in the use of library facilities and research and documentation techniques; emphasis on research papers and on critical essays. *Prerequisites:* ESOL 1311 and ESOL 1310, each with a grade of "C" or better. ESOL 1310 may be taken concurrently with ESOL 1312.

1406 Basic English Sentence Structure (3-2)

A systematic presentation of English grammar and sentence structure for speakers of English as a foreign language. *Corequisite:* ESOL 1309. *Prerequisite:* ESOL 1610 with a grade of "C" or better or placement exam.

1610 Intermediate English for Speakers of Other Languages II (5-2)

Practice with the basic structures of English, including their expansion into more complex structures. Practice with the conversational patterns of modern English. *Prerequisite:* ESOL 1910 with a grade of "C" or better, or placement exam. Laboratory fee required.

1910 Intermediate English for Speakers of Other Languages I (8-2)

Practice with the basic structures of English, including their expansion into more complex structures. Practice with the conversational patterns of modern English.
Prerequisite: Placement exam. Laboratory fee required.

2303 English for Humanities and Social Sciences (3-0)

This course is designed to provide additional practice for non-native speakers of English in the specialized discourse patterns of the humanities and social sciences. It will emphasize reading and interpretation of books and articles in the humanities and social sciences as well as the writing of them. Required of all majors in the College of Liberal Arts who present ESOL 1312 in lieu of ENGL 1312. *Prerequisites:* ESOL 1312 and ESOL 1310 or ESOL 1210, each with a grade of "C" or better, or department approval.

French (FREN)

1301 French One (3-2)

( FREN 1311)

An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing.

1302 French Two (3-2)

( FREN 1312)

A continuation of FREN 1301, with the introduction of more complex elements of grammar; additional practice in the four basic skills. *Prerequisite:* FREN 1301 or the department placement test.

2301 French Three (3-0)

( FREN 2311)

Oral and written work in French; grammar review; reading from modern French authors. *Prerequisite:* FREN 1302 or the department placement test.

2302 French Four (3-0)

( FREN 2312)

Grammar review; reading from modern French authors. *Prerequisite:* FREN 2301 or the department placement test.

3301 French Literature To 1715 (3-0)

Introduction to French literature through the seventeenth century.

Prerequisite: FREN 2302.

3303 French Literature Since 1715 (3-0)

Introduction to French literature from 1715 to the present. Main literary trends and principal writers from the Romantic Period to the present.

Prerequisite: FREN 2302.

3305 French Phonology and Phonetics (3-0)

Analysis of the sound structure of French, as well as corrective phonetics directed toward individual students in the class. The course is intended to improve the student's pronunciation as well as to give a theoretical basis for teaching the sounds of French. *Prerequisite:* FREN 2302. FREN 2302 may be taken concurrently with FREN 3305.

3320 French Civilization (3-0)

A survey of the political, social, intellectual, and artistic history of France and the francophone world. *Prerequisite:* FREN 2302.

3355 Advanced Conversation (3-0)

Practice in pronunciation, comprehension, and oral expression. Selected readings and written exercises designed to promote development of oral skills. Recommended for non-native speakers before progressing to other advanced courses. *Prerequisite:* FREN 2302.

3357 Advanced Composition (3-0)

Review of aspects of grammar essential to effective writing, introduction to elements of style and rhetoric, vocabulary building, and intensive practice with written assignments and graded compositions. *Prerequisite:* FREN 2302.

3361 Introduction to Creative Writing in Spanish (3-0)

Basic techniques of imaginative writing application to fiction, poetry, and non-fiction. For students wishing to pursue an interest in writing through advanced workshop courses and/or expand their powers of written expression through exercise of the senses, memory, and imagination. The course introduces students to the uses of concrete language, imagery, character portrayal, and plotting techniques. Writing assignments and readings in Spanish. *Prerequisite:* SPAN 2302 or 2304 or departmental placement exam.

4301 Methods of Foreign Language Instruction (3-0)

Practical application of linguistic principles to the teaching of modern foreign languages. Classroom techniques, and development and evaluation of teaching and testing materials appropriate to the written and spoken language. May not be counted for credit in addition to SPAN 4301 or LING 4301, *Prerequisite:* ENGL 1312 or ENGL 1313 or ESOL 1312.

4387 Poetry (3-0)

May be repeated once for credit when the topic varies. *Prerequisite:* Six hours of advanced French courses.

4388 Prose (3-0)

May be repeated once for credit when the topic varies. *Prerequisite:* Six hours of advanced French courses.

4389 Theatre (3-0)

May be repeated once for credit when the topic varies. *Prerequisite:* Six hours of advanced French courses.

4390 Topics in French (3-0)

May be repeated for credit when topics vary. *Prerequisites:* Six hours of advanced French and instructor approval.

See the *Graduate Catalog* for graduate programs and courses.

German (GERM)

1301 German One (3-2)

(👉 GERM 1311)

An introductory course with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing.

1302 German Two (3-2)

(👉 GERM 1312)

A continuation of GERM 1301, with the introduction of more complex elements of grammar; additional practice in the four basic skills. *Prerequisite:* GERM 1301 or the department placement test.

2301 German Three (3-0)

(👉 GERM 2311)

Oral and written work in German, with some more advanced grammar and an introduction to the writing of compositions. Reading from contemporary authors. *Prerequisite:* GERM 1302 or the department placement test.

2302 German Four (3-0)

(👉 GERM 2312)

Grammar review, compositions, and reading from contemporary authors. *Prerequisite:* GERM 2301.

Greek (GREK)

3350 Greek Literature in Translation (3-0)

Readings in English translation from various periods and genres of classical Greek Literature, with a particular emphasis on an overview of Greek Mythology. *Prerequisite:* ENGL 1312.

Latin (LATN)

2303 Accelerated Latin One (3-0)

An introductory accelerated course in reading and writing Latin. Emphasis will be placed on acquiring a firm grasp of grammar and building vocabulary.

2304 Accelerated Latin Two (3-0)

A continuation of Latin 2303 with the introduction of more complex elements of grammar and syntax and additional practice in reading and writing as well as exposure to more advanced Latin prose and poetry. *Prerequisite:* LATN 2303.

3301 Advanced Latin (3-0)

Readings in Latin prose and poetry with alternate emphasis on fluency and close attention to text. May be repeated for credit when materials vary. *Prerequisite:* LATN 2304.

Linguistics (LING)

2303 Intensive Language Study (3-0)

Presentation and analysis of the fundamentals of a language that is structurally distinct from modern English. Reading of elementary texts. May be repeated for credit as language varies.

2304 Intensive Language Study (3-0)

Presentation and analysis of the fundamentals of a language that is structurally distinct from modern English. Reading of elementary texts. May be repeated for credit as language varies. Prerequisite: LING 2303 with a grade of "C" or better.

2320 An Introduction to Linguistics (3-0)

Introduction to basic concepts and techniques of modern linguistics. (May be taken as ENGL 2320 or ANTH 2320.)

2322 The Academic Vocabulary of English (3-0)

The study of English vocabulary with emphasis on the academic lexicon. Systematic review of Greek and Latin elements in English. Close attention to derivational patterns and lexical families. Prerequisites: ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3301 Phonology (3-0)

Techniques of analyzing sound patterns in a variety of languages. Formulating phonological rules, including the use of distinctive features. Prerequisite: LING 2320, ANTH 2320, or ENGL 2320.

3302 Syntax (3-0)

Techniques of analyzing syntax and aspects of morphology, as applied to English and a variety of other languages. Emphasis on understanding the range of possible syntactic phenomena in language. Prerequisite: LING 2320, ANTH 2320, or ENGL 2320.

3307 English Phonetics and Phonology (3-0)

Linguistic analysis of the sound system and the orthography of English. Course oriented toward the needs of teachers of English at all levels. Same as ENGL 3307. Prerequisite: ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3308 Methods of Teaching English to Speakers of Other Languages (3-0)

Modern foreign language teaching techniques with particular attention to the problems of the learner of English. Theories of language learning and testing, and the practical use of audio-visual equipment. (May be taken as ENGL 3308.) Prerequisite: ENGL 1312 or ENGL 1313 or ESOL 1312.

3309 The Structure of Spanish (3-0)

Linguistic analysis of Spanish morphology and syntax. Course oriented toward needs of teachers of Spanish at all levels. Same as SPAN 3309. Prerequisites: (1) SPAN 2302 or SPAN 2304 or department placement exam and (2) department approval.

3311 Spanish Phonetics and Phonology (3-0)

Linguistic analysis of the orthography and the sound system of Spanish. Course oriented toward the needs of teachers of Spanish at all levels. Same as SPAN 3311. Prerequisite: SPAN 2302 or SPAN 2304 or department placement exam.

3313 English Historical Linguistics (3-0)

The development of English from its beginnings to Modern English. A study of the changes in the phonological, morphological, and syntactic systems. Prerequisites: ENGL 2311 and ENGL 2312, or LING 2320, ANTH 2320, or ENGL 2320.

3314 The Structure of English for Language Professionals (3-0)

An examination of the structure of English in a descriptive framework. Structural phenomena analyzed in the context of teaching grammar to native and non-native speakers of English. Same as ENGL 3314. Prerequisite: ENGL 1312 or ENGL 1313 or ESOL 1312 with a grade of "C" or better.

3315 History of the Spanish Language (3-0)

A survey of the development of the Spanish language from Vulgar Latin to modern Spanish. (May be taken as SPAN 3315.) Prerequisite: SPAN 2302 or SPAN 2304 or department placement exam.

3357 Sociolinguistics (3-0)

Language variables and sociological correlates, a review of current research, theories, and applications. Recommended background: LING 2320.

4306 Language Acquisition (3-0)

Overview of recent findings in child language acquisition. Includes theories of acquisition, application of linguistic theory, and research techniques. Prerequisites: LING 2320, and LING 3301 or LING 3302.

4316 Language and Cognition (Cross-listed PSYC 4316)

An investigation of language as a cognitive capacity. Topics will include perception, processing, acquisition, and mental representation of language. *Prerequisite:* PSYC 1301 or LING 2320.

4348 Analyses of Second Language Acquisition (3-0)

A theoretical and practical examination of various (though complementary) theories of second language learning, with their implications for the second language classroom.

4371 Studies in Linguistics (3-0)

Topics to be discussed will be selected. May be repeated for credit when topic varies. *Prerequisites:* Six hours of 3300-4300 linguistics and department approval.

See the *Graduate Catalog* for graduate programs and courses.

Portuguese (PORT)

2301 Accelerated Portuguese One (3-0)

An introductory accelerated course in pronunciation and grammar of Brazilian Portuguese; practice in speaking, understanding, reading, and writing.

Prerequisite: One year in or working knowledge of another Romance language. Course fee required.

2302 Accelerated Portuguese Two (3-0)

A continuation of PORT 2301 with the introduction of more complex elements of grammar and additional practice in the four basic skills. Reading from modern Brazilian and Portuguese writers. *Prerequisite:* PORT 2301. Course fee required.

4390 Topics in Portuguese (3-0)

May be repeated when topics vary. *Prerequisites:* Six hours of advanced Portuguese and instructor approval.

Spanish (SPAN)

1301 Elementary Spanish One (3-2)

( SPAN 1311)

An introductory course for non-native speakers with emphasis on pronunciation and the basic elements of grammar; practice in understanding, speaking, reading, and writing. *Prerequisite:* Department approval.

1302 Elementary Spanish Two (3-2)

( SPAN 1312)

A continuation of SPAN 1301, with the introduction of more complex elements of grammar; additional practice in the four basic skills. *Prerequisite:* SPAN 1301 or department placement exam.

2301 Intermediate Spanish One for Non-Native Speakers (3-0)

( SPAN 2311)

A course emphasizing development of conversational and reading skills. Review and continuation of grammar study begun in SPAN 1301 and SPAN 1302. Readings from contemporary sources. *Prerequisite:* SPAN 1302 or department placement exam.

2302 Intermediate Spanish Two for Non-Native Speakers (3-0)

( SPAN 2312)

A continuation of SPAN 2301, with some grammar review and more extensive readings from the contemporary period. *Prerequisite:* SPAN 2301 or department placement exam.

2303 Spanish for Spanish Speakers One (3-0)

A first course for bilingual students who have acquired listening and speaking skills in Spanish because it is spoken in their home or social environment. Development of reading and writing skills, with attention to spelling and use of the written accent. Entrance into SPAN 2303 is by examination only; completion of this course with a grade of "C" or better entitles a student to 8 hours of credit

by examination for SPAN 1301 and SPAN 1302. *Prerequisite:* Department placement exam.

2304 Spanish for Spanish Speakers Two (3-0)

A continuation of SPAN 2303, with additional opportunities for reading and composition, a review of the written accent, and an introduction to the systematic study of Spanish grammar. *Prerequisite:* SPAN 2303 or department placement exam.

3300 Critical Introduction to Hispanic Literature (3-0)

An overview of major literary movements, genres, and writers from the Middle Ages to the present. Introduction to literary analysis, with special emphasis on uniquely Hispanic elements such as Spanish prosody, the *romances*, the *auto sacramental*, character types and the like. Required of all Spanish majors, to be taken preferably before other upper-division literature courses. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3301 Spanish Literature before 1700 (3-0)

Main literary trends and principal writers from the Middle Ages through the Golden Age. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3302 Spanish American Literature to Modernism (3-0)

Main literary trends and principal writers in Spanish America from the sixteenth century to Modernism. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3303 Spanish Literature since 1700 (3-0)

Main literary trends and principal writers from the eighteenth century to the contemporary period. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3304 Spanish American Literature since Modernism (3-0)

Main literary trends and principal writers in Spanish America from the Modernist period to the present. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3309 Structure of Spanish for Language Professionals (3-0)

Linguistic analysis of Spanish morphology and syntax. Course oriented toward needs of teachers of Spanish at all levels. Same as LING 3309. *Prerequisites:* (1) SPAN 2302 or SPAN 2304 or department placement exam and (2) department approval.

3311 Spanish Phonetics and Phonology (3-0)

Linguistic analysis of the orthography and the sound system of Spanish. Course oriented toward the needs of teachers of Spanish at all levels. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3315 History of the Spanish Language (3-0)

A survey of the development of the Spanish language from Vulgar Latin to modern Spanish. Same as LING 3315. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3320 Culture and Civilization of Spain (3-0)

A survey of the country and its peoples, emphasizing historical, geographic, political, social, and artistic elements. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3325 The Confluence of Mexican and Chicano Literature (3-0)

Comparative study of representative works in both Mexican and Chicano literature, stressing differences and correlations between the two. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3330 Spanish American Civilization (3-0)

A survey of historical, geographic, political, social, and artistic elements of Spanish America, including the cultures of Spanish-speaking groups in the United States. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3357 Advanced Composition (3-0)

Review of aspects of grammar essential to effective writing, introduction to elements of style and rhetoric, vocabulary building, and intensive practice with written assignments and graded compositions. *Prerequisite:* SPAN 2302 or SPAN 2304 or department placement exam.

3361 Introduction to Creative Writing in Spanish (3-0)

Basic techniques of imaginative writing applicable to fiction, poetry and non-fiction. For students wishing to pursue an interest in writing through advanced workshop courses and/or expand their powers of written expression through exercise of the senses, memory, and imagination. The course introduces students to the uses of concrete language, imagery, character portrayal, and plotting techniques. Writing assignments and readings in Spanish.

Prerequisite: SPAN 2302 or 2304 or department placement exam.

4301 Methods of Foreign Language Instruction (3-0)

Practical application of linguistic principles to the teaching of modern foreign languages. Classroom techniques, and development and evaluation of teaching and testing materials appropriate to the written and spoken languages. May not be counted for credit in addition to FREN 4301 or LING 4301. *Prerequisite:* SPAN 3309 or LING 3309 and ENGL 1312 or ENGL 1313 or ESOL 1312.

4324 The Literature of Mexico (3-0)

Principal genres and major works of Mexican literature. *Prerequisite:* Six hours of advanced Spanish.

4328 Golden Age Drama (3-0)

A study of the leading dramatists: Lope de Vega, Tirso de Molina, Calderón de la Barca, Ruiz de Alarcón, Moreto, and others. *Prerequisite:* Six hours of advanced Spanish.

4335 19th Century Spanish Literature (3-0)

Consideration of the two major literary movements of the century: Romanticism and Realism. Readings from representative authors, including Lara, Bécquer, and others. Prerequisite: Six hours of advanced Spanish.

4339 The Short Story (3-0)

Shorter fictional forms in Spain and Spanish America from Juan Manuel to the present. *Prerequisite:* Six hours of advanced Spanish.

4341 Modern Drama (3-0)

Readings from representative Spanish American and Spanish dramatists. *Prerequisite:* Six hours of advanced Spanish.

4358 Twentieth Century Spanish Literature (3-0)

Readings in outstanding works by the principal authors of Spain in this century. Emphasis on a genre or type. *Prerequisite:* Six hours of advanced Spanish.

4360 Twentieth Century Spanish American Novel (3-0)

Reading and analysis of works by some major Spanish American novelists of the twentieth century. Emphasis on the development and evolution of major themes and techniques in these works, as typified by the novels of such writers as Juan Rulfo, Carlos Fuentes, Mario Vargas Llosa, Gabriel García Márquez, Isabel Allende, and others. *Prerequisite:* Six hours of advanced Spanish.

4361 Cervantes (3-0)

The literary value and influence of the Quixote and the *Novelas ejemplares*. Traditional and modern interpretations. The life and times of Cervantes. *Prerequisite:* Six hours of advanced Spanish.

4363 Spanish American Poetry (3-0)

Study and interpretation of major poets and movements from the Colonial period to the present. Emphasis on the Modernist period and contemporary poetry. *Prerequisite:* Six hours of advanced Spanish.

4390 Topics in Spanish (3-0)

May be repeated when topics vary. *Prerequisites:* Six hours of advanced Spanish and department approval.

See the *Graduate Catalog* for graduate programs and courses.

✦ Indicates Texas Common Course Number

Translation and Interpretation Program

The program in Spanish-English, English-Spanish translation is designed to complement any academic major and to provide qualified students with the opportunity to acquire skill and experience in translating and interpreting. It may be taken as a minor to satisfy the BA degree requirements of the College of Liberal Arts. Students will receive instruction primarily in the practice of translation, including utilization of available resource materials, but will also examine translation theory and issues of professional ethics and responsibilities. A second objective of the program is to develop students' writing ability in both English and Spanish. Students normally begin with TRAN 3359 and then take senior-level classes. Those who wish to take 4300-level classes first must consult the Program Coordinator.

Program participants who have completed at least two (2) semesters of work in translation are eligible to take professional-level certification examinations, either English to Spanish or Spanish to English or both. Translation Certificates will be awarded to those who demonstrate professional-level competency in this manner. Students should consult the Program Coordinator for additional information about certification testing.

The Minor in Translation will consist of 18 hours, which includes TRAN 4390 and five courses chosen from the following: TRAN 3359, TRAN 4381, TRAN 4382, TRAN 4383, TRAN 4384, and TRAN 4389.

Translation (TRAN)**3359 Introduction to Translation (3-0)**

Exploration of basic notions of translation, with special emphasis on defining the translator's goals, resources, and methods. Practice in rendering texts, with careful attention to grammatical and lexical correctness in both Spanish and English. *Prerequisites:* SPAN 2302 or SPAN 2304 or department placement and ENGL 1312 or ESOL 1312.

4381 Commercial and Legal Translation (3-0)

Consideration of the particular characteristics of business and legal texts (commercial correspondence, company policy documents, advertising copy, product-related literature, contracts, official documents, law enforcement, etc.) as they differ in English and Spanish. Study of specialized vocabulary and conventions governing such texts. Careful attention to the translator's responsibility to the client. Practice in translating a wide variety of authentic materials. *Prerequisite:* TRAN 3359 or permission of the Program Coordinator.

4382 Translation from the Information Media (3-0)

This course deals with material taken from newspapers, magazines, and other media. Journalistic practices in English- and Spanish-language publications will be compared and contrasted. Special emphasis on the vocabulary of current events, public issues, and news reporting. *Prerequisite:* TRAN 3359 or permission of the Program Coordinator.

4383 Literary Translation (3-0)

An introduction to the theory and practice of translating literature, emphasizing short fiction, the essay, and poetry. Comparative study of the role of essential rhetorical devices in Spanish and English. Students will have the opportunity to analyze reliable models (published translations) as well as to generate their own original versions of various works. *Prerequisite:* TRAN 3359 or permission of the Program Coordinator.

4384 Introduction to Interpreting (3-0)

Examination of the special nature of interpreting (translating orally) and the particular skills the interpreter must develop. Overview of the role and responsibilities of interpreters in the judicial setting. Extensive practice in sight translation and in simultaneous as well as consecutive interpreting.

Prerequisite: TRAN 3359 or permission of the Program Coordinator.

4389 Topics in Translation (3-0)

Examination of a particular area or skill in translation/interpretation, such as technical, scientific, or medical translation, translation into English, translation into Spanish, consecutive interpreting, simultaneous interpreting, and the like. Course may be repeated once for credit as topic varies.

Prerequisite: TRAN 3359.

4390 Senior Project in Translation (3-0)

Students will take this course during their last semester of enrollment in the Translation Program. In consultation with the instructor, they will select an area of interest and define a task within that area. Project translations will normally be exclusively into the student's dominant language. The instructor and student will confer on a frequent basis throughout the course of the semester. A copy of the final project will be bound and retained as part of the departmental Translation Program Library. *Prerequisites:* At least two of the following: TRAN 4381, TRAN 4382, TRAN 4383, TRAN 4384, and department approval.



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Latin American and Border Studies

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PROGRAM ACADEMIC ADVISOR: Meredith Abarca

The program in Latin American/Border Studies (LABS) is designed to play a critical role in the fulfillment of UTEP's institutional mission, which includes providing students with perspectives based on UTEP's geographic and social setting, thereby contributing to the formation of a broader intellectual and artistic foundation for the 21st Century and to the search for solutions to regional, national, and international problems. UTEP's location in the largest urban center on the U.S.-Mexico border provides a unique opportunity for understanding the modern world through an immediate and concrete experience in the study of Latin America, and for development of a comprehensive view of the Americas and the ways in which different parts of the Americas interact at various

points of contact, including the U.S.-Mexico border. The program includes study of Latin America and of the Border as the zone of expanding connections and fusions between North and South America.

BA in Latin American and Border Studies

The Latin American Studies degree is an interdisciplinary major consisting of interrelated fields designed to provide students with the opportunity to prepare themselves for appropriate employment in business, government, or education or for advanced study in a Latin American area at the graduate level. In addition to the regular academic program, lectures, special seminars, and other Latin American resource opportunities are provided. Students should contact the Center for Inter-American and Border Studies to establish contact with our program advisor.

In addition to fulfilling the general requirements for the Bachelor of Arts degree, the student must complete 30 hours of credit toward the major. In order to provide flexibility and relevance in the program, the program includes an 18 hour core and a 12 hour disciplinary component, focusing on either Latin America or the Border.

Students may satisfy the language requirement by successfully completing SPAN 2301 and SPAN 2302 (for non-native speakers) or SPAN 2303 and SPAN 2304 (for native speakers), or by completing PORT 2301 and PORT 2302. This requirement may be waived upon successful completion of an approved competency examination. If the requirement is waived, students must complete one of the following: SPAN 3320 Hispanic Civilization (recommended for students relatively fluent in the language), SPAN 3355 Advanced Conversation, SPAN 3356 Advanced Conversation for Native Speakers, or SPAN 3357 Advanced Composition (recommended for students needing enhancement of either oral or writing skills).

For the Latin American Studies major with **Latin American Focus**,
The 18 hours of required core courses are:

LABS 2330 The Border

LABS 3330 The Americas

1 course from:

POLS 3337 Latin American Politics,

POLS 4337 The Politics of Mexico

POLS 4338 Relations between the US and Mexico

POLS 4339 US-Latin American Relations

1 course from:

HIST 3356 Central America and The Caribbean

HIST 3347 South America since 1810

HIST 3349 History of Mexico to 1900

1 course from:

SPAN 3330 Spanish American Civilization

PHIL 3312 Latin American Thought

1 course from:

SPAN 3304 Spanish American Literature since modernism

SPAN 4360 Twentieth Century Spanish American Novel

An additional 12 hours are to be taken from any single disciplinary area with a Latin American focus, with approval of the LABS advisor.

For the Latin American Studies major with **Border Focus**,

The 18 hours of required core courses are:

LABS 2330 The Border

LABS 3330 The Americas

1 course from:

POLS 4313 Southwestern Border Politics

POLS 4315 Latinos in the American Political System

POLS 3314 Ethnicity and Race in American Politics

1 course from:

HIST 3342 The Spanish Borderlands

HIST 3325 History of Immigration in the United States

HIST 3317 History of Texas since 1821

HIST 3328 History of Hispanic Peoples in the United States

1 course from:

SPAN 3325 Confluence of Mexican and Chicano Literature

CHIC 3303 Border Image in Mexican Films

1 course from:

ENGL 3310 Chicano Literature

CHIC 3311 Chicano Studies Societal Issues

An additional 12 hours are to be taken from any single disciplinary area with a Border focus, with the approval of the LABS advisor.

Minor in Latin American/Border Studies

The minor in Latin American/Border Studies is structured to serve as a complement for the widest possible variety of major fields and thus prepare students for careers in business, industry, government, education, public service, research, law, health, as well as the demands of citizenship in a complex, inter-related world. The minor includes courses that are broadly integrating and problem-based as well as courses that are more narrowly focused. It is envisioned as a means for integrating the specialized majors with a cross-disciplinary and international context.

The 18-hour minor in LABS may be combined with any major. It includes the following requirements:

- 3 hours, SPAN 2302, SPAN 2304. This requirement may be waived upon successful completion of an approved competency examination.
- LABS 3300 The Americas
- 12 hours of electives in courses of Latin American or Border content, selected with the approval of the Latin American/Border Studies Advisor. These electives are designed to provide appropriate complements to the student's major, thereby adding the perspectives of disciplinary breadth and a Latin American/Border perspective.

UT Telecampus On-line Border Studies Certificate

The Center for Inter-American and Border Studies at the University of Texas at El Paso offers an online Border Studies Certificate program through the UT Telecampus. It consists of three courses that can be taken for undergraduate academic credit, or for non-credit, professional development. The courses provide an integrating view of the US - Mexico border, along with an emphasis on border culture and on the institutions, mechanisms, problems, and solutions of border governance.

The program is designed for working professionals in fields in which knowledge of the border is desirable, including business, political science, criminal justice/law enforcement, education, health, environmental studies, social work, and public administration. The program is also beneficial to undergraduate students enrolled in these same areas, particularly those with aspirations in professional or graduate programs in law, medicine and health, industry and business.

Students completing the program will possess useful knowledge concerning the history of many border problems as well as knowledge of the institutional means for dealing with them. The program develops practical knowledge of the workings of cross-border interactions, as well as strategies that can be used to improve professional (commercial and public) interactions.

For more information, consult the UT Telecampus website at www.telecampus.utsystem.edu.

Latin American/Border Studies (LABS)

Courses in Latin American/Border Studies include a wide variety of courses taught in departments. The Latin American/Border Studies Advisor maintains a list of approved courses in other departments. The course schedule each semester identifies the courses for that semester. Special courses in Latin American/Border Studies include the following:

2330 The Border (3-0)

A multidisciplinary exploration of US-Mexico border issues from the varied and sometimes contentious perspectives of participants/observers on both sides. Students will examine local and non-local perceptions to understand the border as fact and metaphor. Emphasis on appreciating the fragile and complex systems of the border: ethnic, social, cultural, historical, economic, linguistic, legal, and others.

3300 The Americas (3-0)

This course treats selected modern themes as manifested in the Americas, including population movements, the arts, economic change, identity, socio-political structures and events, health, the environment, international relations, borders, and technology. Consideration of each theme includes a discussion of its dynamic historical development and a team-taught, interdisciplinary perspective. *Prerequisite:* Junior standing.

4301 Topics in Latin American/Border Studies (3-0)

Selected topics in Latin American, Inter-American, or Border Studies. May be repeated for credit when topic varies. *Prerequisites:* Junior standing and department approval.



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Liberal Arts Interdisciplinary Program

Bachelor of Fine Arts in Music Theatre

M401 Fox Fine Arts
(915) 747-8708 (ph)
(915) 747-5023 (fax)
ewilson@utep.edu

<https://academics.utep.edu/musictheatre>

MUSIC THEATRE FACULTY COMMITTEE: Elisa Fraser Wilson, Coordinator; Marcia

Fountain, Myron Howard Nadel, Gregory Taylor

The faculties of the Department of Music and the Department of Theatre and Dance offer this professional interdisciplinary degree. The BFA in Music Theatre is designed to train "triple-threat" performers equally skilled in acting, dance, and singing. Students enrolled in this degree receive rigorous instruction in music, dance, and theatre and develop their skills through classroom, workshop, and varied performance activities. The BFA in Music Theatre allows graduates to pursue graduate study and/or careers in performance and arts education. 120 semester hours are required.

Admission Standards

Students must first meet the general entrance requirements for The University of Texas at El Paso. In addition, each prospective student must notify the Coordinator of the Music Theatre Committee of his/her intention to pursue a Music Theatre degree. Students will be asked to audition for program placement by the Music Theatre Committee. Audition information may be obtained from the program website or the program coordinator.

Continuation in the program requires a 2.5 GPA in all major subjects. It is a demanding and rigorous program of interdisciplinary study emphasizing acting, dance, and voice.

Performance Opportunities

Students will be able to audition for roles in musicals, plays, operas, operettas, zarzuelas, and workshops produced by both Departments and the University Dinner Theatre. In the junior and senior years, all students are a part of the UTEP Music Theatre Company and will participate in various performances and workshops designed to further skills and experiences in a "professional company" setting, not always precisely concurrent with a typical semester format. Further, in the junior and senior years, all students are required to present junior and senior capstone performance projects under the guidance of the Music Theatre faculty.

The University of Texas at El Paso Music Theatre Advisory Board includes Broadway choreographer/director Rob Marshall (Chicago-the film, Cabaret, Damn Yankees, Annie-TV Special); Broadway Musical Performer, Burke Moses (Beauty and the Beast, Kiss Me Kate); Brent Barrett (Brigadoon-London Production, Chicago-Broadway, Annie Get Your Gun); lyricist, Sir Tim Rice (Jesus Christ Superstar, Evita, and The Lion King); Merri Sugarman (Casting Director, ABC Television); and performer Craig Wells (Les Miserables, Chess, and Forbidden Broadway).

Academic Basics

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| I. Communications (9 credits) | |
| *ENGL 1311 | 3 |
| *ENGL 1312 | 3 |
| *COMM 1301 or 1302 | 3 |
| II. Mathematics (3 credits) | |
| *MATH 1319 or | 3 |
| *MATH 1320 | |
| III. Natural Sciences (6 credits) | |
| *Two semesters of lecture and one semester of lab chosen from the Natural Sciences core | 6-8 |
| IV. Humanities (3 credits) | |
| *One course chosen from the Humanities core | 3 |
| V. Visual and Performing Arts (3 credits) | |

| | |
|---|-----------|
| *MUSL 1321 | 3 |
| VI. United States History (6 credits) | |
| *HIST1301 | 3 |
| *HIST 1302 | 3 |
| VII. Political Science (6 credits) | |
| *POLS 2310 | 3 |
| *POLS 2311 | 3 |
| VIII. Social and Behavioral Sciences (3 credits) | 3 |
| *One course chosen from the Social and Behavioral Sciences core | |
| IX. Institutional Designate Option (3 credits) | |
| *UNIV 1301 (freshmen only) | 3 |
| *UNIV 2350 | |
| Total University Core Hours | 42 |

* All University Core courses must be completed with a grade of "C" or better

Theatre Courses

| | | |
|-----------|--|---|
| THEA 2313 | Acting I | 3 |
| THEA 2314 | Acting II | 3 |
| THEA 3313 | Acting III | 3 |
| THEA 4313 | Acting IV | 3 |
| THEA 3355 | The Musical Theatre | 3 |
| THEA 1113 | Basic Theatre Production (2 semesters) | 2 |
| THEA 3322 | Script Analysis | 3 |

Dance Courses

| | | |
|-----------|---------------------------------|---|
| DANC 1371 | Dance for the Music Theatre I | 3 |
| DANC 2371 | Dance for the Music Theatre II | 3 |
| DANC 3371 | Dance for the Music Theatre III | 3 |
| DANC 4371 | Dance for the Music Theatre IV | 3 |

Music Courses

| | | |
|----------------|--|-----|
| MUSL 1321 | Introduction to Music History (counts in core) | 0-3 |
| MUST 1313/1111 | Music Theory I /Aural Skills I | 4 |
| MUST 1314/1112 | Music Theory II/Aural Skills II | 4 |
| MUST 2181 | Music Theatre Sight Singing III | 1 |
| MUST 2182 | Music Theatre Sight Singing IV | 1 |
| MUSA 1195 | Individual Instruction (4 semesters) | 4 |
| MUSA 3295 | Individual Instruction (2 semesters) | 4 |
| MUSA 1271 | Piano Class I | 2 |
| MUSA 1272 | Piano Class II | 2 |
| MUSA 1196 | Music Theatre Repertory | 1 |
| MUSA 2263 | Diction I | 2 |
| MUSA 3297 | Vocal Coaching | 2 |
| MUSA 3296 | Commercial Vocal Styles | 2 |
| MUSA 3211 | Music Theatre Company I (2 semesters) | 4 |
| MUSA 4211 | Music Theatre Company II (2 semesters) | 4 |
| MUSA 1151 or | University Chorus (4 semesters of either) | 4 |
| MUSA 1250 | University Chorale | |
| MUSA 1091 | Student Recital Lab (6 semesters) | 0 |

| | |
|------------------------------------|---|
| Junior Recital/Performance Project | 0 |
|------------------------------------|---|

| | |
|--|------------|
| Senior Recital/Performance Project | 0 |
| Total Music/Theatre/Dance Hours | 73 |
| Electives | 5 |
| Total Hours | 120 |

(Music and Dance course descriptions are found under the Music Department section and Theatre course descriptions are found under the Theatre and Dance Department section.)



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Latin American and Border Studies

Physical Address:

1514 Hawthorne Street

(915) 747-5196/5157

cibs@utep.edu

Mailing Address:

500 W. University Boulevard

El Paso, Texas 79968

Website: www.utep.edu/cibs

EXECUTIVE DIRECTOR: Ricardo Blázquez

PROFESSORS EMERITI: C. Richard Bath, Richard Ford, Arturo Pérez, Julius Rivera, Ellwyn Stoddard, Roberto Villarreal

PROFESSORS: Amastae, Bixler, Brunk, Campbell, Cardon, Deutsch, Elerick, Fullerton, García F, Graham, Haddox, Heyman, Kawashima, Lopez, C.E. Martin, McGee Deutsch, Natalicio, Rocha, Schmidt, Staudt, Teschner

ASSOCIATE PROFESSORS: Abarca, Bagby, Brannon, Brunk, Campbell, Carmichael, Chávez, Coronado, Edison, Garabano, García J., Howard, Luykx, Mansfield, Murphy, Perry, Ramirez, Ramos, Rocha, Tabuenca

ASSISTANT PROFESSORS: Leyva, Mansfield, Payán

PROGRAM ACADEMIC ADVISOR: Meredith Abarca

The program in Latin American/Border Studies (LABS) is designed to play a critical role in the fulfillment of UTEP's institutional mission, which includes providing students with perspectives based on UTEP's geographic and social setting, thereby contributing to the formation of a broader intellectual and artistic foundation for the 21st Century and to the search for solutions to regional, national, and international problems. UTEP's location in the largest urban center on the U.S.-Mexico border provides a unique opportunity for understanding the modern world through an immediate and concrete experience in the study of Latin America, and for development of a comprehensive view of the Americas and the ways in which different parts of the Americas interact at various points of contact, including the U.S.-Mexico border. The program includes study of Latin America and of the Border as the zone of expanding connections and fusions between North and South America.

B.A. in Latin American and Border Studies

The Latin American Studies degree is an interdisciplinary major consisting of interrelated fields designed to provide students with the opportunity to prepare themselves for appropriate employment in business, government, or education or for advanced study in a Latin American area at the graduate level. In addition to the regular academic program, lectures, special seminars, and other Latin American resource opportunities are provided. Students should contact the Center for Inter-American and Border Studies to establish contact with our program advisor.

In addition to fulfilling the general requirements for the Bachelor of Arts degree, the student must complete 30 hours of credit toward the major. In order to provide flexibility and relevance in the program, the program includes an 18 hour core and a 12 hour disciplinary component, focusing on either Latin America or the Border.

Students may satisfy the language requirement by successfully completing SPAN 2301 and SPAN 2302 (for non-native speakers) or SPAN 2303 and SPAN 2304 (for native speakers), or by completing PORT 2301 and PORT 2302. This requirement may be waived upon successful completion of an approved competency examination. If the requirement is waived, students must complete one of the following: SPAN 3320 Hispanic Civilization (recommended for students relatively fluent in the language), SPAN 3355 Advanced Conversation, SPAN 3356 Advanced Conversation for Native Speakers, or SPAN 3357 Advanced Composition (recommended for students needing enhancement of either oral or writing skills).

For a complete degree plan, please click [here](#) and select "BA in Latin American and Border Studies."

Minor in Latin American/Border Studies

The minor in Latin American/Border Studies is structured to serve as a complement for the widest possible variety of major fields and thus prepare students for careers in business, industry, government, education, public service, research, law, health, as well as the demands of citizenship in a complex, inter-related world. The minor includes courses that are broadly integrating and problem-based as well as courses that are more narrowly focused. It is envisioned as a means for integrating the specialized majors with a cross-disciplinary and international context.

The 18-hour minor in LABS may be combined with any major. It includes the following requirements:

- 3 hours, SPAN 2302, SPAN 2304. This requirement may be waived upon successful completion of an approved competency examination.
- LABS 3300 The Americas
- 12 hours of electives in courses of Latin American or Border content, selected with the approval of the Latin American/Border Studies Advisor. These electives are designed to provide appropriate complements to the student's major, thereby adding the perspectives of disciplinary breadth and a Latin American/Border perspective.

UT Telecampus On-line Border Studies Certificate

The Center for Inter-American and Border Studies at the University of Texas at El Paso offers an online Border Studies Certificate program through the UT Telecampus. It consists of three courses that can be taken for undergraduate academic credit, or for non-credit, professional development. The courses provide an integrating view of the US - Mexico border, along with an emphasis on border culture and on the institutions, mechanisms, problems, and solutions of border governance.

The program is designed for working professionals in fields in which knowledge of the border is desirable, including business, political science, criminal justice/law enforcement, education, health, environmental studies, social work, and public administration. The program is also beneficial to undergraduate students enrolled in these same areas, particularly those with aspirations in professional or graduate programs in law, medicine and health, industry and business.

Students completing the program will possess useful knowledge concerning the history of many border problems as well as knowledge of the institutional means for dealing with them. The program develops practical knowledge of the workings of cross-border interactions, as well as strategies that can be used to improve professional (commercial and public) interactions.

For more information, consult the UT Telecampus website at www.telecampus.utsystem.edu.

Course Information

For course descriptions, please click [here](#) and select Latin American/Border Studies (LABS).



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Military Science

107 Military Science Building
(915) 747-5621
mmcanfield@utep.edu

CHAIRPERSON: LTC Matthew M. Canfield

Courses offered by this department are designed to offer qualified students an opportunity to become a commissioned Army officer. The curriculum provides opportunities for leadership training and experience that are not duplicated in other college courses. Instruction encourages the development of resource management skills, self-assurance, confidence, personal discipline, executive abilities, personal responsibility, professional ethics, physical stamina, bearing, and other fundamental qualities required of an Army officer. These same qualities will enhance any civilian career.

The first two years (MS I and MS II) comprise the Basic Course which offers an introduction to Military and Confidence Building Skills, First Aid and Survival Skills, Land Navigation, and Leadership Assessment and Managerial Skills. Basic Courses are normally taken during the freshman and sophomore years without any military obligation. The last two years (MS III and MS IV) constitute the Advanced Course and are normally taken during the student's junior and senior years. All MS courses require a non-credit Leadership Lab. Additionally, Advanced Course students are required to satisfactorily complete selected courses in Written Communication, Human Behavior, Computer Literacy, Math Reasoning, and Military History prior to commissioning.

Eligibility

Basic Course

Enrollment in the Basic Course is open to all students at any academic level. Credit for all or part of the Basic Course may be granted by the Professor of Military Science (PMS) for participation in high school ROTC or for active military service of four or more months. This is done on a case-by-case basis.

Two-Year Program

Students who did not enroll in the Basic Course, or who cannot be given credit for the Basic Course by virtue of active military service or participation in Junior ROTC (high school), may qualify for the Advanced Course by attending a four-week summer training course (Leaders' Training Course, located at Fort Knox, Kentucky). Applicants for the camp should visit the Department of Military Science no later than May 1st to obtain application forms and schedule a physical examination. Students must have a minimum of four semesters remaining prior to completion of a baccalaureate or advanced degree.

Advanced Course

Admission requires approval of the PMS based on medical fitness, an acceptable degree plan, a cumulative GPA of 2.0 or higher, and military qualification under one of the following plans:

1. Prior military service
2. Completion of the Basic Course requiring MS 1101, 1103, 2202, and 2204
3. Completion of Leaders' Training Course at Fort Knox, Kentucky
4. Junior ROTC-advanced placement (approved on an individual basis by the PMS)

The student is required to sign a contract with the U.S. government to accept a commission in the Army or Army Reserve upon graduation.

Scholarships

Four-Year Scholarships

Army ROTC scholarships are available annually. These scholarships are awarded on a nationally competitive basis to high school graduates. Interested high school seniors should obtain application requests from their counselors and submit the request by January 1st. Application forms are also available at the Military Science Department. Students majoring in nursing may apply for dedicated nursing scholarships.

Three-Year Scholarships

The Professor of Military Science awards these scholarships to college freshmen. Freshmen, including those not enrolled in Military Science, may apply through the Military Science Department. Applications may be submitted from mid-November through mid-April. Nursing students may apply for a three-year dedicated nursing scholarship.

Two-Year Scholarships

The Professor of Military Science awards these scholarships to college sophomores. Sophomores who have not been in ROTC must attend Summer Camp at Fort Knox, Kentucky where they will receive the "hands on" foundation of the basic ROTC course. Applications may be submitted from mid-November through the end of May.

Pay and Allowances

Pay and Allowances

All students enrolled in Army ROTC are furnished uniforms, textbooks, and equipment on a loan basis. All advanced course cadets are paid \$450 per month during the Junior year and \$500 during the Senior year, for a maximum of ten months, excluding the five-week Advanced Leadership Course. The U.S. Government pays the tuition, required fees, textbooks, and essential classroom supplies for Army ROTC scholarship students. Additionally, four-year and three-year ROTC scholarship recipients are paid \$300-350 per month during the fall and spring semesters of their freshman and sophomore years.

Additional Programs

Qualified cadets may attend Airborne School, Air Assault School, Cadet Field Training, Drill Cadet Leader Training, Mounted Maneuver Training, Army Science Board, Northern Welfare Cadet Orientation, Combat Survival Training, United Officer Training, and ROTC nurse summer training. Additionally, Advanced Course cadets may attend Cadet Troop Leadership Training (CTLT), serving a two to three-week tour with an active Army unit upon completion of the National Advanced Leadership Camp.

Commissions Offered

Upon successful completion of all Military Science studies and requirements for a baccalaureate degree, a cadet is awarded a commission as a Second Lieutenant in the United States Army or Army Reserve/National Guard and may be required to serve on active duty not to exceed three years (four years for ROTC scholarship students). Since UTEP offers a general Military Science curriculum, a commission in most branches of the Army is possible. Following graduation, newly commissioned officers are sent to an Officer Basic Course (OBC) to qualify for a specific branch, and then complete a tour of active duty through a variety of challenging assignments. Reserve officers return to a local Reserve unit upon completion of OBC. Active duty can be delayed for those students who wish to pursue graduate studies leading to a master's degree, law degree, medical degree, or others.

Military Science (MS)

Basic Course (MS I and II)

1101 Introduction to Basic Military Skills (1-1)

An introduction of basic military skills and professional knowledge of subjects essential for the development of the novice military leader. No military obligation.

1103 Introduction to Basic Military Skills (1-1)

A continuing introduction of basic military skills and professional knowledge of subjects essential for the development of the novice military leader. No military obligation.

2202 Military Skills (2-1)

A study of various military skills and professional knowledge of subjects essential to a military leader. No military obligation. *Prerequisite:* MS 1101, MS 1103, or instructor approval.

2204 Military Skills (2-1)

A continuing study of various military skills and professional knowledge subjects essential to a military leader. The MS 2204 course concludes with a leadership assessment evaluation which provides a screening technique, involving behavioral simulations, to determine the competency of potential junior officers. No military obligation.

Advanced Course (MS III and IV)

3301 Military Science III (3-1)

A comprehensive treatment of those qualities and skills fundamental to the military profession. This course addresses the role of the Army in national affairs as well as from the historic context. Concurrently, it provides instruction in the organizational, planning, and directive processes of control while incorporating those leadership dimensions associated with written and verbal communicative forms, training procedures, counseling techniques, systems and resource management. This body of information is superimposed over a framework involving selected military skills. *Prerequisites:* Completion/credit for Basic Course and PMS approval.

3302 Military Science III (3-1)

A comprehensive treatment of those qualities and skills fundamental to the military profession. This course addresses the role of the Army in national affairs as well as from the historic context. Concurrently, it provides instruction in the organizational, planning, and directive processes of control while incorporating those leadership dimensions associated with written and verbal communicative forms, training procedures, counseling techniques, systems and resource management. This body of information is superimposed over a framework involving selected military skills. *Prerequisites:* Completion/credit for Basic Course and PMS approval.

3401 Summer Field Training (0-0-4)

Intensive field training course stressing practical application of leadership, management, and performance with emphasis on tactical and technical military skills. *Prerequisites:* MS 3301, MS 3302, fully enrolled as an Advanced Course Student, and PMS approval.

3402 ROTC Nurse Summer Training Program (0-0-4)

A three weeklong clinical leadership experience. Open only to nursing students with at least one clinical nursing course and after completion of MS 3401. The student receives pay. Travel, lodging, and most meal costs are defrayed by the U.S. Army. A 120-hour clinical assignment with an Army Nurse Corps Preceptor at an Army hospital in the U.S. or overseas. Designed to improve clinical skills and self-confidence with the nursing and ROTC curriculum. *Prerequisites:* MS 3401 and department approval.

4301 Military Science IV (3-1)

An in-depth examination of the profession of arms as it relates to military ethics and professionalism and the national security system. Provides the opportunity to develop executive leadership and managerial skills associated with their attendant functions such as planning and analysis; training management; Command and Staff relationships; personnel, fiscal, and logistics management. Concurrently the MS IV student is placed in leadership, managerial, and instructional roles within an Army Command and Staff framework, and is required to exercise those skills in day-to-day operations. *Prerequisites:* MS 3301, MS 3302, and PMS approval.

4302 Military Science IV (3-1)

An in-depth examination of the profession of arms as it relates to military ethics and professionalism and the national security system. Provides the opportunity to develop executive leadership and managerial skills associated with their attendant functions such as planning and analysis; training management; Command and Staff relationships;

personnel, fiscal, and logistics management. Concurrently the MS IV student is placed in leadership, managerial, and instructional roles within an Army Command and Staff framework, and is required to exercise those skills in day-to-day operations. *Prerequisites:* MS 3301, MS 3302, and PMS approval.

Elective Courses

1113 Marksmanship (0-3)

An extensive skill course emphasizing the techniques of marksmanship and the firing of .22 caliber rifles, pistols, and match-grade air rifles. No military obligation. Laboratory fee required.

1116 Marksmanship (Advanced) (0-3)

An intensive, advanced skill course emphasizing the techniques of competitive marksmanship with match-grade .22 caliber rifles. May be repeated for credit. No military obligation. *Prerequisites:* MS 1113 and department approval. Laboratory fee required.

1199 Civilian and Military Leadership (1-0)

A study of leadership principles with an emphasis on leadership dynamics, ethics, decision-making skills, and effective methods of communication. Effective management and leadership skills will be studied through the use of historical case study and practical exercises.

3313 U.S. Military History (3-0)

A study of United States military history from colonial times to present. The course begins with an overview of military doctrine and terminology and will then consider the origins of the U.S. military system. Discussions will focus on the evolution of warfare, the progression of military professionalism and contemporary military affairs to include joint operations. Open to all UTEP students.



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Music

301 MFox Fine Arts
(915) 747-5606 (ph)
(915) 747-5023 (fax)
music@utep.edu

CHAIRPERSON: Lowell Graham
PROFESSOR EMERITUS: Amyl Paul, Hugh Cardon
PROFESSORS: Fountain, Graham, Hufstader, Ross, White
ASSOCIATE PROFESSORS: Colgin, Gibson, Leinberger, McMillan, Schweigart, Tredway, Trimble, Warren, Wilkinson, Wilson, S.
ASSISTANT PROFESSORS: Dousa, Eylon, Jones, Macchioni, Unsworth, Wilson, E.
VISITING ASSISTANT PROFESSORS: Siqueiros
LECTURERS: Gutierrez, Haddad, Han, Walker

The Department of Music offers programs leading toward the Bachelor of Music (BM) degree in three major fields of Music Education: General Studies with Teacher Certification, Performance, and Theory and Composition. In addition, a Bachelor of Fine Arts in Music Theater is offered jointly by the Music and Theater and Dance Departments. Information about this program is found in the Liberal Arts Interdisciplinary Studies section of this catalog.

Major in Performance

Performance majors may select orchestra/band instruments, keyboard instruments, keyboard performance/pedagogy, voice or guitar, as a concentration within the major.

Academic Basics for all Performance Majors

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| I. Communications (9 credits) | |
| *ENGL 1311 | 3 |
| *ENGL 1312 | 3 |
| *COMM 1301 or 1302 | 3 |
| II. Mathematics (3 credits) | |
| *MATH 1319 or | 3 |
| *MATH 1320 | |
| III. Natural Sciences (6 credits) | |
| *Two semesters of lecture and one semester of lab chosen from the Natural Sciences core | 6-8 |
| IV. Humanities (3 credits) | |
| *One course chosen from the Humanities core | 3 |
| V. Visual and Performing Arts (3 credits) | |
| *MUSL 1321 | 3 |
| VI. United States History (6 credits) | |
| *HIST1301 | 3 |
| *HIST 1302 | 3 |
| VII. Political Science (6 credits) | |
| *POLS 2310 | 3 |
| *POLS 2311 | 3 |
| VIII. Social and Behavioral Sciences (3 credits) | 3 |
| *Keyboard performance pedagogy majors should take PSYC 1301 | |
| IX. Institutional Designated Option (3 credits) | |
| *UNIV 1301 (freshmen only) | 3 |
| *UNIV 2350 | |

Note: Keyboard performance pedagogy majors should take PSYC 1301 to fulfill the Social and Behavioral Sciences Requirement.

| | |
|--|-----------|
| Total University Core Hours | 42 |
| * All University Core courses must be completed with a grade of "C" or better | |
| Foreign Language (2 semesters of French, German, or Italian) | 6 |
| Total Non-Music | 48 |

Music Courses-Keyboard Performance Concentration, Performance Major

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| Music Theory: MUST 1313/1111, 1314/1112, 2313/2111, 2314/2112, 3215, 3218 | 20 |
| Applied Music: | |
| MUSA 1195 (4 semesters) | 4 |
| MUSA 3391 (4 semesters) | 12 |
| MUSA 3331 or MUSA 3337 Conducting | 3 |
| MJSL 3321- MJSL 3322 Music Literature and History | 6 |
| MUSE 4394 Piano Pedagogy (2 semesters) | 6 |
| MUSA 4395 Piano Literature (2 semesters) | 6 |
| Band, Choir or Orchestra (minimum 4 semesters) | 4 |
| MUSA 1165 Chamber Music (4 semesters) | 4 |
| Voice Study | 2 |
| MUSA 1091 (8 semesters) | 0 |
| Junior ½ Recital | 0 |
| Senior Full Recital | 0 |
| Total Music Hours | 67 |
| Electives from an approved list | 5 |
| Total Hours | 120 |

Music Courses-Keyboard Performance Pedagogy, Performance Major

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| Music Theory: MUST 1313/1111, 1314/1112, 2313/2111, 2314/2112, 3215, 3218 | 20 |
| Applied Music: | |
| MUSA 1195 (4 semesters) | 4 |
| MUSA 3391 (4 semesters) | 12 |
| MUSA 3331 or MUSA 3337 Conducting | 3 |
| MJSL 3321- MJSL 3322 Music Literature and History | 6 |
| MUSE 4394 Piano Pedagogy (3 semesters) | 9 |
| MUSA 4395 Piano Literature (2 semesters) | 6 |
| Band, Choir or Orchestra (minimum 4 semesters) | 4 |
| MUSA 1165 Chamber Music (4 semesters) | 4 |
| MUSA 1091 (8 semesters) | 0 |
| Junior ½ Recital | 0 |
| Senior Full Recital | 0 |
| Total Music Hours | 68 |
| Electives from an approved list | 4 |
| PSYC 1301 If not taken in University Core | (3) |
| Total Hours | 120 |

Music Courses-Wind/String/Percussion Emphasis, Performance Major

| <u>Courses</u> | <u>Hours</u> |
|---|--------------|
| Music Theory: MJST 1313/1111, 1314/1112, 2313/2111, 2314/2112, 3215, 3218 | 20 |
| Applied Music: | |
| MUSA 1195 (4 semesters) | 4 |
| MUSA 3391 (4 semesters) | 12 |
| MUSA 3331 Conducting | 3 |
| MJSL 3321- MJSL 3322 Music Literature and History | 6 |
| Band, Choir, or Orchestra (minimum 8 semesters) | 8 |
| MUSA 1165 Chamber Music (4 semesters) | 4 |
| MUSA 1091 (8 semesters) | 0 |
| Junior ½ Recital | 0 |
| Senior Full Recital | 0 |
| Piano Proficiency Test | 0 |
| Total Music Hours | 57 |
| Electives from an approved list | 15 |
| Total Hours | 120 |

Music Courses-Guitar Emphasis, Performance Major

| <u>Courses</u> | <u>Hours</u> |
|---|--------------|
| Music Theory: MJST 1313/1111, 1314/1112, 2313/2111, 2314/2112, 3215, 3218 | 20 |
| Applied Music: | |
| MUSA 1195 (4 semesters) | 4 |
| MUSA 3391 (4 semesters) | 12 |
| MUSA 3331 or MUSA 3337 Conducting | 3 |
| MJSL 3321- MJSL 3322 Music Literature and History | 6 |
| MUSA 1165 Chamber Music (4 semesters) | 4 |
| MUSA 1285 (2 semesters) Jazz Guitar for classical majors; Classical Guitar for jazz majors | 4 |
| Band, Choir, or Orchestra (minimum 4 semesters) | 4-8 |
| Piano Proficiency or MUSA 2272 | 0-8 |
| MUSE 4297 Guitar Pedagogy | 2 |
| MUSA 1091 (8 semesters) | 0 |
| Junior ½ Recital | 0 |
| Senior Full Recital | 0 |
| Total Music Hours | 59 |
| Electives from an approved list | 13 |
| Total Hours | 120 |

Music Courses-Vocal Emphasis Performance Major

| <u>Courses</u> | <u>Hours</u> |
|---|--------------|
| Music Theory: MJST 1313/1111, 1314/1112, 2313/2111, 2314/2112, 3215 | 20 |
| Applied Music: | |
| MUSA 1195 (4 semesters) | 4 |
| MUSA 3391 (4 semesters) | 12 |
| MUSA 3337 | 3 |
| MUSA 2263, MUSA 2264; MUSA 4294 Diction and Song Literature | 6 |
| MUSA 2253, MUSA 2254, MUSA 3253, MUSA 3254 (4 semesters) | |
| Music Theatre | 8 |
| Choir (minimum 8 semesters) | 8 |
| Piano Proficiency or MUSA 2272 | 0-8 |
| MUSA 4293 (Vocal Pedagogy) | 2 |
| MJSL 3321- MJSL 3322 Music Literature and History | 6 |

| | |
|--|------------|
| MUSA 1091 (8 semesters) | 0 |
| Junior ½ Recital | 0 |
| Senior Full Recital | 0 |
| Total Music Hours | 67 |
| Electives from an approved list | 5 |
| Total Hours | 120 |

Allowed Electives, Bachelor of Music in Performance, all emphases:

- MUST 1215 Introduction to Music Technology
- MUSA 2275, 2276, 2267, 2268, 2277, 2278, 2279 Extra Secondary Instrument Class
- MUSL 3228 Extra Upper-level Music Literature
- MUST 3XXX or 4XXX level (any course) Extra Upper-level Theory
- MUSE 4215 Choral Literature
- MUSA 1185 or 1285 Applied lessons on a secondary instrument
- MUSA 1280 or 2280 Guitar Class
- MUSA 2217 Music Improvisation
- Additional foreign language
- Acting
- Dance for the Music Theatre

Major in Music Theatre

Students should refer to the Liberal Arts Interdisciplinary Program section for degree requirements (directly before the Music section).

Major in Theory and Composition

University Core Curriculum (Same as for the Major in Performance)

Music Requirements

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| Music Theory: MUST 1313/1111, 1314/1112, | |
| 2313/2111, 2314/2112, 3211, 3212, 3215, 3218, 4211 | 26 |
| MUST 3216 Theory (2 semesters) | 4 |
| MUST 1215, MUST 3315 | 5 |
| MUST 2219 Composition (2 semesters) | 4 |
| MUST 3319 Composition (3 semesters) | 9 |
| MUSL 1321 (0 if taken in the University core) | 0-3 |
| MUSL 3321, MUSL 3322 | 6 |
| Piano Proficiency or MUSA 2272 | 0 |
| Ensemble (8 semesters) | 8 |
| MUSA 1195 (4 semesters) Major instrument study | 4 |
| MUSA 3295 (2 semesters) Major instrument study | 4 |
| MUSA 2217 (Applied) Introduction to Improvisation | 2 |
| MUSA 1091 (8 semesters) Recital | 0 |
| Senior Recital/project | 0 |
| Electives | 6 |
| Total Music Hours | 78 |

Major in General Music with Teacher Certification

Instrumental Track

University Core Curriculum (Same as for the Major in Performance)

Instrumental Track Music

| <u>Courses</u> | <u>Hours</u> |
|--|--------------|
| Instrumental Pedagogy: 3 semesters from MJSA2275, 2267, 2268, 2276, 2277, 2278, 2279 | 6 |
| MJSA 1165 (2 semesters) Chamber Music | 2 |
| MJSA3331, MJSA3333 Instrumental Conducting | 6 |
| MJSA2033 (2 semesters) Instrumental Conducting/Ensemble Lab | 0 |
| Band or Orchestra (8 semesters) as assigned by music department | 8 |
| MJSA 1091 (8 semester minimum) Student Recital | 0 |
| MJSL 1321 Intro to Music History if not taken in the University core | (3) |
| Piano Proficiency or MJSA2272 | 0-8 |
| MUST 1313/1111; 1314/1112; 2313/2111; 2314/2112; 3215 Theory | 18 |
| MJSL 3321, MJSL 3322 Music history I & II | 6 |
| MJSA 1195 Applied lessons in major area - lower level (4 semesters) | 4 |
| MJSA3295 Applied lessons in major area – upper level (3 semesters) | 6 |
| Senior Recital | 0 |
| Total Instrumental Track Music Core Hours | 56 |

Education

| | |
|---|-----------|
| MJSE 3336 Elementary Music Education | 3 |
| MJSE 4333 Secondary Music Education | 3 |
| EDPC 3300; SCED 3317 | 6 |
| RED 3342; TED 4697 | 9 |
| Total Music Education Core Hours | 21 |

| | |
|--------------------|------------|
| Electives | 1 |
| Total Hours | 120 |

Vocal Track

University Core Curriculum (Same as for the Major in Performance)

Vocal Track Music Core

| <u>Courses</u> | <u>Hours</u> |
|---|--------------|
| MJSA2263, 2264 Diction | 4 |
| MJSA4293 Vocal Pedagogy | 2 |
| MJSA4294 Song Literature | 2 |
| MJSA3337, MJSA3338 Choral Conducting | 6 |
| MJSA2039 (2 semesters) Choral Conducting Lab | 0 |
| Choirs (8 semesters) as assigned by music department | 8 |
| MJSA 1091 (8 semesters) Student Recital | 0 |
| MJSL 1321 Intro to Music History if not taken in core | (3) |
| MUST 1313/1111; 1314/1112; 2313/2111; 2314/2112; 3215 Theory | 18 |
| MJSL 3321, MJSL 3322 Music History I & II | 6 |
| Piano Proficiency or MJSA2272 | 0 |
| MJSA 1195 Applied lessons in major area – lower level (4 semesters) | 4 |
| MJSA3295 Applied lessons in major area – upper level (3 semesters) | 6 |
| Senior Recital | 0 |
| Total Vocal Track Music Core Hours | 56 |

Education

| | |
|---|-----------|
| MUSE 3336 Elementary Music Education | 3 |
| MUSE 4333 Secondary Music Education | 3 |
| EDPC 3300; SCED 3317 | 6 |
| RED 3342; TED 4697 | 9 |
| Total Music Education Core Hours | 21 |

| | |
|--------------------|------------|
| Electives | 1 |
| Total Hours | 120 |

Minor in Music

Students pursuing the BA degree in another discipline may minor in music, with either an applied music or an academic music option. Some background in music is required and the student will take placement tests in both theory and applied music.

For the Applied Music Option

2 hours (2 semesters) participation in band, choir, or orchestra depending on area

4 semesters of MUSA 1091 Recital

4 hours (4 semesters) MUSA 1195 Individual instruction, lower level

9 hours (3 semesters) MUSA 3391 Individual instruction, upper level

MJSL 1321 Introduction to Music History

For the Academic Music Option

Music Theory: MUST 1313, MUST 1314, and MUST 1111, MUST 1112

Music History/Literature: MJSL 1321, MJSL 3321, and MJSL 3322

Whole Arts (ARTS)

3320 Whole Arts (2-2)

An interarts experience that addresses Texas State requirements in the arts for classroom teachers EC-4. The course explores major themes from the visual and performing arts and uncovers arts tools, methods and resources for teaching and learning. The themes are presented in lectures, activities and interviews. Creative laboratory sections are held on and off campus.

Applied Music (MUSA)

Ensemble: Symphonic Wind Ensemble, Symphonic Band, Marching Band, Lab Stage Band, Ballet Corps, Chorale, Chorus, Orchestra, Guitar, and small chamber groups are maintained. These organizations are open to all students who wish to enjoy the performance of a great variety of music. On special occasions each year, several organizations are combined in large productions including operas, ballets, and oratorios. Home concerts and concert tours are a part of the program. Consent of the instructor is required for some ensemble courses, and all may be repeated for credit.

1102 Golddiggers (0-6)

A course for women in dancing, twirling, pom pom, and marching activities; participation in football shows and other public appearances. May be repeated for credit.
Prerequisite: Admission by try-out only.

1137 Jazz Band (2-1)

May be repeated for credit. Equipment maintenance fee required.

1138 Concert Band (2-1)

A study of selected works in the field of band literature. May be repeated for credit.

1139 Wind Ensemble (2-1)

This is a Wind Ensemble performance group. Equipment maintenance fee required.

1142 Mariachis (1-0)

This course explores the performance aspects of the mariachis. Participants must be able to perform on one of the mariachi instruments. Open to all through audition. Equipment maintenance fee required.

1143 Symphonic Band (2-1)

May be repeated for credit. Equipment maintenance fee required.

1150 Percussion Ensemble (2-1)

The study of percussion ensemble literature in a performance setting. Equipment maintenance fee required.

1151 University Chorus (2-1)

A mixed singing organization open to all students interested in any kind of choral work. Audition is not required. Oratorios and operas are presented with orchestral accompaniment, occasionally in combination with the University Chorale. Open to all. May be repeated for credit.

1156 University Jazz Singers (2-1)

This is a vocal jazz performing group.

1162 Orchestra-Winds and Percussion (2-1)

May be repeated for credit. Equipment Maintenance fee required.

1165 Chamber Music/Accompanying (1-0)

Small ensembles for instrumentalists.

1185 Individual Instruction (0-0-1)

Applied lessons for non-majors and secondary instruments. One thirty-minute lesson per week. May be repeated for credit. Music course fee required.

1195 Individual Instruction (0-0-1)

Lower-level applied lessons for music majors. One hour lesson per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

1236 Jazz Ensemble (4-2)

May be repeated for credit. Equipment maintenance fee required.

1241 Marching Band (4-2)

Provides instruction in drill design and show music that results in marching band performances. This will replace MUSA 1141.

1244 Symphonic Winds (4-2)

Study of wind ensemble music in a performance setting.

1250 University Chorale (4-2)

May be repeated for credit.

1261 Orchestra – Strings (4-2)

May be repeated for credit. Equipment maintenance fee required.

1265 Chamber Music and Accompanying (0-0-3)

Reading of music and study of selected works characteristic of the performing group. May be repeated for credit.

1285 Individual Instruction (0-0-2)

Applied lessons for non-majors and secondary instruments. One hour lesson per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

1290 Individual Instruction (0-0-2)

Private lessons for those preparing for entry into music major curriculum. May be repeated for credit. Music course fee required.

1295 Individual Instruction (0-0-2)

Lower-level applied lessons for music majors. One hour lesson per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

2033 Instrumental Conducting Lab (0-0-0)

Laboratory course for conducting and secondary instruments classes. Non-credit.

2039 Vocal Conducting Lab (0-0-0)

Laboratory course for vocal conducting. Non-credit.

2217 Improvisation (2-0)

Techniques of improvisation in various styles. May be repeated for credit.

3255 Improvisation I (2-0)

Improvisation I-advanced level courses for those who pass Intro level. Continuation of chord/scale relationships and contemporary styles of improvisation, including, but not limited to, post-bebop jazz styles, funk and rock styles, salsa, and country. *Prerequisite:* MUST 2217 with a grade of "C" or better.

3256 Improvisation II (2-0)

Continuation of chord/scale relationships and contemporary styles of improvisation, including, but not limited to, post-bebop jazz styles, funk and rock styles, salsa, and country. *Prerequisite:* MJSA3255 with a grade of "C" or better.

Group Instruction: Credit granted only when taken as a secondary instrument or elective. Open to all students with permission of instructor.

1251 English Diction and Repertory (2-0)

Introduction to English singing diction and its application through selected repertory.

1252 Italian/Spanish Diction and Repertory (2-0)

Introduction to Italian and Spanish singing diction and its application through selected repertory.

1269 Piano Class A (0-3)

Beginning instruction in piano. Assumes no previous background. Intended for non-music majors. Equipment maintenance fee required.

1270 Piano Class B (0-3)

Beginning instruction in piano. Continuation of MJSA 1269. Intended for non-music majors. Equipment maintenance fee required.

1271 Piano Class I (0-3)

Equipment maintenance fee required. *Prerequisite:* Department approval.

1272 Piano Class II (0-3)

Prerequisite: MJSA 1271. Equipment maintenance fee required.

1273 Voice Class (2-0)

1274 Voice Class (2-0)

1280 Beginning Guitar Class (0-0-2)

An introduction to beginning techniques of classical and folk guitar styles with emphasis on note reading. Open to all.

2251 German Diction and Repertory (2-0)

Introduction to German singing diction and its application through selected repertory.

2252 French Diction and Repertory (2-0)

Introduction to French singing diction and its application through selected repertory.

2253 Music Theatre Workshop (2-0)

Exploration through active participation of the aspects of stage production peculiar to music theatre, styles and techniques of acting with music, stage directing problems in treating a musical score, and rudimentary technical production. Brief survey of literature for the musical stage appropriate to public school, community, and television productions. May be repeated for credit.

2254 Music Theatre Workshop (2-0)

Exploration through active participation of the aspects of stage production peculiar to music theatre, styles and techniques of acting with music, stage directing problems in treating a musical score, and rudimentary technical production. Brief survey of literature for the musical stage appropriate to public school, community, and television productions. May be repeated for credit.

2255 Commercial Piano I (0-3)

Class piano course. Introduction to chord symbols, modern voicings, chord structures and styles.

2256 Commercial Piano II (0-3)

Continuation of Commercial Piano I. *Prerequisite:* MUSA2255 with a grade of "C" or better.

2263 Diction I (2-0)

English, Italian, Spanish, and Latin diction for vocal majors. *Prerequisites:* Admission to lower level vocal major applied music and department approval.

2264 Diction II (2-0)

German and French diction for vocal majors. *Prerequisites:* Admission to lower level vocal major applied music and department approval.

2267 Secondary Instruction- Woodwinds I (2-0)

Flute, clarinet, saxophone as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2268 Secondary Instruction-Brass I (2-0)

Brass Instruments as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2271 Piano Class III (0-3)

Prerequisite: MUSA 1272. Equipment maintenance fee required.

2272 Piano Class IV (0-3)

Prerequisite: MUSA2271. Equipment maintenance fee required.

2275 Secondary Instruction-Low Strings (2-0)

Cello and string bass as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2276 Secondary Instruction-High Strings (2-0)

Violin and viola as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2277 Secondary Instruction-Woodwinds II (2-0)

Oboe and bassoon as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2278 Secondary Instruction-Brass II (2-0)

Trombone, baritone/euphonium, tuba as secondary instruments. *Prerequisites:* MUST 1112 and MUST 1314 each with a grade of "C" or better.

2279 Secondary Instruction-Percussion (2-0)

Percussion instruments as secondary instruments. *Prerequisites:* Must 1112 and MUST 1314 each with a grade of "C" or better.

2280 Intermediate Guitar Class (2-0)

Continued work on the classical techniques and literature of the guitar. *Prerequisite:* MUSA 1280 or instructor approval.

2375 Secondary Instruments I (3-0)

A study of instrumental technique and pedagogy for teachers and conductors. *Prerequisites:* MUST 1314 and MUST 1112. Equipment maintenance fee required.

2376 Secondary Instruments II (3-0)

A study of instrumental technique and pedagogy for teachers and conductors. *Prerequisite:* MUSA2375. Equipment maintenance fee required.

3137 Jazz Band (2-1)

This is an upper level course of MUSA 1137. Equipment maintenance fee required.

3138 Concert Band (2-1)

This is an upper level course of MUSA 1138. Equipment maintenance fee required.

3139 Wind Ensemble (2-1)

Study of wind ensemble literature in an advanced performance setting. This course replaces MUSA 1141. Equipment Maintenance fee required.

3140 Symphonic Band (2-1)

3143 Symphonic Band (2-1)

This is an upper level section that is being added for an existing course. Equipment maintenance fee required.

3150 Percussion Ensemble (2-1)

This is an upper level for MUSA 1150. Equipment maintenance fee required.

3151 University Chorus (2-1)

This is an upper division class to follow MUSA 1151 which replaces MUSA 1155.

3156 University Jazz Singers (2-1)

This is an upper level course to follow MUSA 1156.

3162 Orchestra-Winds and Percussion (2-1)

This is an upper level course to follow MUSA 1162. Equipment maintenance fee required.

3236 Jazz Ensemble (4-2)

This is an upper division course for an existing course (MUSA 1146). Equipment maintenance fee required.

3241 Marching Band (4-2)

Upper level course that is similar to MUSA 1241 but with more in-depth study. This will replace MUSA 1143. Equipment maintenance fee required.

3244 Symphonic Winds (4-2)

Study of advanced wind ensemble music in a performance setting. This course replaces MUSA 1143. Equipment maintenance fee required.

3250 University Chorale (4-2)

This is an upper division course to follow MUSA 1250. It is an advanced study of chorale literature in a performance setting.

3253 Music Theatre Workshop (2-0)

Continuation of MUSA.2253. May be repeated for credit.

3254 Music Theatre Workshop (2-0)

Continuation of MUSA.2254. May be repeated for credit.

3261 Orchestra-Strings (4-2)

This is the upper level course for MUSA 1261. Equipment maintenance fee required.

3296 Commercial Vocal Styles (2-0)

Study and performance of contemporary commercial vocal repertory and techniques. *Prerequisites:* Acceptance into upper-level individual instruction in voice and department approval. May be repeated for credit.

3297 Vocal Coaching (0-0-2)

An upper-level course designed to prepare Music Theatre students for junior and senior performance projects. This course will meet one hour per week to be arranged on an individual basis with a member of the Music Theatre faculty. *Corequisite:* Upper level voice study. *Prerequisite:* 4 semesters of lower level voice and admission to upper level music theatre study. May be taken twice for credit (4 hours total).

3211 Music Theatre Company I (1-3)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit. *Prerequisites:* Admission to the Music Theatre program and department approval. Music course fee required.

3311 Music Theatre Company I (0-12)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit.

3331 Beginning Conducting Techniques (3-0)

Techniques of conducting and organizing vocal and instrumental ensembles. Baton techniques, score reading, interpretation, rehearsal techniques, and literature of various ensembles. *Prerequisites:* MJST 2314 and MJST 2112.

3332 Instrumental Conducting II (3-0)

Continuation of Instrumental Conducting I. Prerequisite: MUSA3331 with a grade of "C" or better.

3333 Advanced Conducting Techniques (3-0)

Continued study of conducting begun in MUSA3331. *Prerequisite:* MUSA3331.

3337 Choral Conducting I (3-0)

Techniques of conducting and organizing choral ensembles. Baton techniques, score reading, interpretation, rehearsal techniques, and literature of various ensembles. *Prerequisites:* Must 2112 and MUST 2314 each with a grade of "C" or better.

3338 Choral Conducting II (3-0)

Continuation of Choral Conducting I. *Prerequisite:* MUSA3337 with a grade of "C" or better.

4211 Music Theatre Company II (1-3)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit. *Prerequisites:* Admission to the Music Theatre program and department approval. Music course fee required.

4262 Performance Seminar (0-0-2)

Career development for music performers. *Prerequisite:* Department approval.

4293 Pedagogy of Voice (2-0)

Methods of voice development through voice-building and song literature. The study of psychological and physiological vocal problems, including the changing voice, the monotone and registers of all voice classifications. Attention also given to training voices for choral singing and solo performance. *Prerequisites:* MUSA2263 and MUSA 2264 each with a grade of "C" or better and department approval.

4294 Song Literature (2-0)

A survey of literature for solo voice.

4311 Music Theatre Company II (0-12)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit. *Prerequisite:* MUSA3311 with a grade of "C" or better.

Individual Instruction: Placement auditions are required on the major and secondary instruments. Students who demonstrate adequate proficiency on any required instrument or voice will be encouraged to substitute other courses outside of the music area. Students will perform before the music faculty at the close of each semester. The audition at the close of the second year also determines admission to upper-division courses. For full description of the course of study for any applied music course, students should consult the Music Department Handbook, which is available in the department office.

Students are expected to study on campus with members of the University music faculty. Performance majors must present a full graduation recital approved by the music faculty. Music Education majors must present a partial recital. Consent of the instructor is required for all individual instruction.

1091 Student Recital Lab (0-0-1)

Lab for MUSA 1291, MUSA 1391, MUSA 3291, and MUSA 3391. Required of all students registered in these courses. May be repeated for credit. Graded Pass/Fail.

1281 Individual Instruction (0-0-6)

For non-majors, as a secondary instrument, and for students needing preparatory study. One thirty-minute lesson and five practice hours per week. May be repeated for credit. Music course fee required.

1291 Individual Instruction (0-0-6)

Lower level applied lessons for Music Education and Theory/Composition majors. One thirty-minute lesson and five practice hours per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

1381 Individual Instruction (0-0-10)

For non-majors, as a secondary instrument, and for students needing preparatory study. Two thirty-minute lessons and nine practice hours per week. May be repeated for credit. Music course fee required.

1390 Individual Instruction (0-0-3)

Private lessons for those preparing for entry into music major curriculum. Music course fee required.

1391 Individual Instruction (0-0-10)

Lower level applied lessons for Music Education, Performance, and Theory/Composition majors. Two thirty-minute lessons and nine practice hours per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

3195 Individual Instruction (0-0-1)

Upper-level applied lessons for music majors. One thirty-minute lesson per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

3295 Individual Instruction (0-0-2)

Upper-level applied lessons for music majors. One hour lesson per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

3391 Individual Instruction (0-0-10)

Upper-level applied lessons for Music Education and Theory/Composition majors. Two thirty-minute lessons and nine practice hours per week. May be repeated for credit. *Prerequisite:* Department approval. Music course fee required.

Repertory Class: Repertory classes offer the student performance experience and

added instruction in technique and literature in a two-hour class. These courses must be taken concurrently with an appropriate Individual Instruction class. All repertory classes may be repeated for credit.

1192 Piano Repertory (0-0-2)

May be repeated for credit.

1194 Guitar Repertory (0-0-2)

May be repeated for credit.

1196 Music Theatre Repertory (0-2)

Study of repertory for the music theatre.

4395 Piano Repertory (3-0)

A study of piano repertory for piano majors. *Prerequisite:* Department approval.

See the *Graduate Catalog* for graduate programs and courses.

Music Education (MUSE)

3336 Teaching of Music in the Elementary Schools (3-0)

Pre-adolescent growth and development as the basis of procedures in the teaching of music in the elementary grades. Designed to meet the needs of the special music teacher. The child voice, its development and classification. Introduction of notation, song materials, rhythm bands, appreciation methods, and creative music for children. For Elementary School Music majors. *Prerequisites:* MUST 2314 and MUST 2112.

4214 Band Music Literature (2-0)

Survey of literature for middle and high school bands.

4215 Choral Music Lit (2-0)

Survey of literature for middle and high school choirs.

4216 Orchestral Music Lit (2-0)

Survey of literature for middle and high school orchestras.

4234 Marching Band Techniques (2-0)

Techniques and materials used in developing a marching band program in the junior and senior high school.

4296 Keyboard/Guitar Pedagogy (2-0)

M ISA 1280 and M ISA 2272 each with a grade of "C" or better

4297 Guitar Pedagogy (2-0)

Materials and methods for teaching guitar. Requires admission to upper-level study in guitar. *Prerequisite:* Department approval.

4333 Teaching of Music in the Junior and Senior High Schools (3-0)

The study of the adolescent growth and development, and related procedures in the teaching of music in the upper level grades and in high school. Choral and instrumental music materials, organization of ensembles, teaching of music appreciation and theory, correlation and integration with the entire school curriculum; public school type music as it is related to the life and needs of a community. *Prerequisites:* MUST 2314 and MUST 2112.

4335 Selected Problems in Music Education (0-0-3)

The student may receive individual instruction and guidance in the area in which a specific need is demonstrated. Credit may be received in the elementary or secondary school field. *Prerequisites:* Six hours of Education, six hours of Music, senior standing, or equivalent background as determined by the instructor and chairman of the department.

See the *Graduate Catalog* for graduate programs and courses.

Literature and History (MUSL)

1221 Introduction to Music Literature (2-0)

( MUSI 1208)

A general survey of the history of music in the Western world, including some discussion of the music of non-western cultures. Emphasis on skills needed for oral and written communication about music. *Prerequisite:* Department approval.

1222 Introduction to Music Literature (2-0)

( MUSI 1209)

A general survey of the history of music in the Western world, including some discussion of the music of non-western cultures. Emphasis on skills needed for oral and written communication about music. *Prerequisite:* Department approval.

1321 Introduction to Music History (3-0)

An introduction to Music History. This course is aimed at students with some background in music and assumes the ability to read music.

1324 Music Appreciation (3-0)

( MUSI 1306)

A survey of music and its roots in Western civilization. Emphasis on music listening skills as well as relationships between music and other arts and society. Performance of live and recorded music offered to class. No musical background is assumed. Open to all.

1326 The Music of Mexico (3-0)

A survey of Mexican musical development including Pre-conquest Mayan, Aztec, colonial, and 20th century periods as well as the Mariachi and folk styles. Representative literature demonstrated by guest artists and recordings. Open to all.

1327 Jazz to Rock (3-0)

( MUSI 1310)

A study of the styles, performers, and composers of American Jazz music, beginning with the evolution of early jazz styles which combine English, Spanish, and French folk songs with African tribal rhythms, and continuing to the present. Guest artists and audio-visual aids are used. Open to all.

3219 Music in the Middle Ages and Renaissance (2-0)

Music history and style from the fall of Rome through 1600. *Prerequisites:* MJST 1314 and MJST 1112; MUSL 3321 and MUSL 3322.

3220 Music in the Baroque Period (2-0)

Music history and literature from 1600 to 1750. *Prerequisites:* MJST 1314 and MJST 1112; MUSL 3321 and MUSL 3322.

3221 Music in the Viennese Classical Period (2-0)

Music history and literature from 1770 to 1830. *Prerequisites:* MJST 1314 and MJST 1112; MUSL 3321 and MUSL 3322.

3222 Music in the Romantic Period (2-0)

Music history and literature in the nineteenth century. *Prerequisites:* MJST 1314 and MJST 1112; MUSL 3321 and MUSL 3322.

3223 Music in the Twentieth Century (2-0)

Music history and literature in the twentieth century. *Prerequisites:* MJST 1314 and MJST 1112; MUSL 3321 and MUSL 3322.

The history and literature of music in the twentieth century. *Prerequisites:* MUSI 1314, MUSI 1112, MUSL 3321, and MUSL 3322.

3228 Topics in Music History (2-0)

The history and literature of music from varying perspectives. *Prerequisites:* MUSL 3321 and MUSL 3322 each with a grade of "C" or better.

3321 Music History Survey (3-0)

Survey of music history for upper level music majors. *Prerequisites:* MUST 1112, MUST 1314, and MUSL 1321 each with a grade of "C" or better.

3322 Music History Survey (3-0)

Continuation of MUSL 3321. *Prerequisites:* MUST 1112, MUST 1314, and MUSL 1321 each with a grade of "C" or better.

3324 Introduction to World Music (3-0)

General introduction to the relationships between music and culture with special emphasis upon the music of Asians, Africans, and Native Americans. Listening and ethnomusicological activities. Open to all.

3325 Music on the Border (3-0)

An investigative course designed to promote a greater awareness of the role music plays in contemporary life along the U.S./Mexico border, with special attention to folk and popular styles. Supervised field research will be emphasized in which each student is encouraged to relate music to his personal interest and/or major field. No musical background is assumed.

3326 Radio, Racism, and Rebellion: A Social History of Rock (3-0)

This course will cover the development of Rock and Roll from its origins as Race Music and its subsequent evolution from 1960's classic rock to contemporary genres including Electronica, Hip Hop, and World Music.

3327 History of Jazz-from slavery to freedom (3-0)

This course is an in-depth coverage of the history of America's most original art form-Jazz. The course will cover the evolution of jazz from the time of slavery and the early musical forms of jazz (blues, work songs, spirituals, field hollers, etc.) to the most recent trends in jazz. The jazz styles (Dixieland, Swing, Bebop, Cool, Hard Bop, Fusion, and Smooth Jazz) will be analyzed in detail emphasizing their role in historical, cultural and social developments in this country.

3330 History of Commercial Music (3-0)

A history of popular and commercial music and related genres. *Prerequisite:* MUSL 1321 with a grade of "C" or better.

See the *Graduate Catalog* for graduate programs and courses.

Theory (MUST)

1111 Aural Skills I (2-0)

( MUSI 1116)

Diatonic sight-singing, dictation, computer assisted instruction in major and minor keys, and in simple and compound meters. *Corequisite:* MUST 1313. *Prerequisite:* MUST 1311 or MUST 1312 with a grade of "C" or better.

1112 Aural Skills II (2-0)

( MUSI 1117)

Diatonic sight-singing, dictation, computer assisted instruction in major and minor keys, and in simple and compound meters with an introduction to chromaticism. *Corequisite:* MUST 1314. *Prerequisites:* MUST 1313 and MUST 1111 each with a grade of "C" or better.

1181 Music Theatre Sight Singing I (1-0)

Experience in aural recognition of tone relations through sight singing, simple dictation and keyboard activities. Emphasis on development of singing and keyboard skills and tonal memory. *Corequisite:* MUST 1311. *Prerequisite:* Department approval.

1182 Music Theatre Sight Singing II (1-0)

Experience in aural recognition of tone relations through sight singing, simple dictation and keyboard activities. Emphasis on development of singing and keyboard skills and tonal memory. *Prerequisite:* MUST 1181 with a grade of "C" or better or department approval.

1215 Intro to Music Technology (2-0)

MDI techniques, digital techniques, computer software, synthesizing music, recording music. May be repeated once for credit.

1311 Music Fundamentals (3-0)

Functional experiences in the basic fundamentals of music with simple melodic, harmonic, and rhythmic activities; one through four-part singing and dictation. Open to all.

1312 Music Fundamentals (3-0)

Functional experiences in the basic fundamentals of music with simple melodic, harmonic, and rhythmic activities; one through four-part singing and dictation. Open to all.

1313 Music Theory I (3-0)

(👉 MUSI 1311)

Introduction to diatonic harmony for all music majors, including the elements of pitch and rhythm, major and minor scales, major and minor key signatures, functional harmony of all diatonic chords, and the principles of voice leading in four-part harmony using root-position and inverted triads. *Corequisite:* MJST 1111. *Prerequisite:* MJST 1311 or MJST 1312 with a grade of "C" or better.

1314 Music Theory II (3-0)

(👉 MUSI 1312)

Harmonic progression including cadences, period forms, non-chord tones, diatonic seventh chords, modulation to closely-related keys, and an introduction to chromaticism. *Corequisite:* MJST 1112. *Prerequisites:* MJST 1313 and MJST 1111 with a grade of "C" or better.

1315 Introduction to Electronic Music (3-2)

(👉 MUSI 1390)

Creating sounds with digital synthesis. Computer controlled digital synthesizers. Tape recording of music. May be repeated once for credit.

2111 Aural Skills III (2-0)

(👉 MUSI 2116)

A continuation of exercises in developing skills in prepared singing, sight singing, and dictation. Topics include singing and dictating major- and minor-key melodies that involve chromaticism, identifying 7th chords in all inversions and augmented 6th chords, and dictating 4-part harmonic progressions involving chords studies in MJST 2313. Computer-assisted instruction (CAI) will be used for dictation exercises. *Corequisite:* MJST 2313. *Prerequisites:* MJST 1314 and MJST 1112 each with a grade of "C" or better.

2112 Aural Skills IV (2-0)

(👉 MUSI 2117)

A continuation of exercises in developing skills in prepared singing, sight singing, and dictation. Topics include singing and dictating major- and minor-key melodies that involve advanced chromaticism, and types of meter typically encountered in late 19th- and 20th-century music, chord identification, dictating 4-part harmonic progressions involving chords studied in MJST 2314, and an introduction to 20th-century scales and atonality. Computer-assisted instruction (CAI) will be used for dictation exercises. *Corequisite:* MJST 2314. *Prerequisites:* MJST 2313 and MJST 2111 each with a grade of "C" or better.

2181 Music Theatre Sight Singing III (1-0)

Advanced experience in aural recognition of tone relations through sight singing, keyboard and tonal memory activities. *Prerequisite:* MJST 1182 or MJST 1112 with a grade of "C" or better and department approval.

2182 Music Theatre Sight Singing IV (1-0)

Advanced experience in aural recognition of tone relations through sight singing, keyboard and tonal memory activities. *Prerequisite:* MJST 2181 with a grade of "C" or better or department approval.

2219 Introduction to Composition (0-0-3)

Traditional and contemporary styles of composition with an emphasis on small forms. May be repeated for credit. *Prerequisite:* Department approval.

2313 Music Theory III (3-0)

(👉 MUSI 2311)

A continuation of the study of harmony, voice leading, and form in the Western musical tradition. Topics include binary and ternary forms, mode mixture, the Neapolitan chord, augmented 6th chords, and enharmonic reinterpretation and modulation. *Corequisite:* MJST 2111. *Prerequisites:* MJST 1314 and MJST 1112 each with a grade of "C" or better.

2314 Music Theory IV (3-0)

(👉 MUSI 2312)

A continuation of the study of harmony, voice leading, and form in the Western musical tradition. Topics include elements of late 19th-century and contemporary harmonic vocabulary, 20th-century scales, non-tertian harmony, atonality, and other significant trends. *Corequisite:* MJST 2112. *Prerequisites:* MJST 2313 and MJST 2111 each with a grade of "C" or better.

2316 Introduction to Commercial Music (3-0)

Topics may include any of the following: historical and theoretical aspects of structures used in the commercial music industry. Time formats, MIDI programming, combining live and synthetic elements. Introduction to Recording Techniques. May be repeated for credit. Open to all.

3211 16th-Century Counterpoint (2-0)

An overview of counterpoint in the style of Palestrina, including analysis of representative Renaissance compositions and contrapuntal procedures. Written work will involve counterpoint exercises and composition of short pieces in the 16th-century style. *Prerequisites:* MUST 2112 and 2314 each with a grade of "C" or better and a passing grade on the Music Theory Advancement Exam.

3212 18th-Century Counterpoint (2-0)

Analysis and composition of various contrapuntal forms of the eighteenth century, including species counterpoint, canon, invention, passacaglia, and fugue, for two, three and four voices. *Prerequisites:* MUST 2112 and MUST 2314 each with a grade of "C" or better and a passing grade on the Music Theory Advancement Exam.

3215 Music Theory V (2-0)

Harmonic and formal analysis of orchestral scores of the music from the Period of Common Practice, including Sonata Form, Concerto-Sonata, Concerto-Rondo, Sonata-Rondo, Binary, Ternary, Theme and Variations and more. *Prerequisites:* MJST 2112 and MUST 2314 each with a grade of "C" or better and a passing grade on the Upper Division Music Theory Advancement Exam.

3216 Theory Seminar (2-0)

An upper level course, which exposes the student to a wide variety of traditional and contemporary analytical and compositional topics. Intended for theory/composition majors, but may be taken by all upper level music students. May be taken for credit three times. *Prerequisites:* MUST 2112 and 2314 each with a grade of "C" or better and a passing grade on the Upper Division Music Theory Advancement Exam.

3218 Music Theory VI (2-0)

The use of music notation software to compose and arrange music for various groups of voices and instruments, including strings, brass, woodwinds and percussion. Formatting scores and parts for various ensembles. *Prerequisites:* MUST 3215 with a grade of "C" or better and a passing grade on the Upper Division Music Theory Advancement Exam.

3261 Comm Arr/Anal/Comp I (2-0)

Arranging/Analysis/Composition I, Commercial Music Idioms-intro and survey. Project-based grading. In-depth study of arranging techniques for combo, pop orchestra and big band. *Prerequisites:* MUST 2112 and MUST 2314, each with a grade of "C" or better, Upper Division Theory Advancement Exam; passage of the Commercial Music junior admission barrier.

3262 Comm Arr/Anal/Comp II (2-0)

Arranging/Analysis/Composition II, Continuation of Commercial Music Idioms-survey. Project-based grading. In-depth study of arranging techniques for combo, pop orchestra and big band. *Prerequisite:* MUST 3261 with a grade of "C" or better.

3263 Comm Arr/Anal/Comp III (2-0)

Arranging/Analysis/Composition II, Continuation of Commercial Music Idioms-survey. Project-based grading. In-depth study of arranging techniques for combo, pop orchestra and big band. *Prerequisite:* MUST 3262 with a grade of "C" or better.

3315 Advanced Music Technology (3-2)

Digital and analog synthesis of music. Computer control of MIDI systems. Sound sampling and manipulation. May be repeated for credit. *Prerequisite:* MUST 1315 with a grade of "C" or better.

3316 Commercial Music Composition (3-0)

Study of commercial composition. Topics may include any of the following: scoring for small and large ensembles as well as for various electronic media. Study of modern musical styles and traditional hybrids. Analysis of commercial music from radio and television to film scores. May be repeated for credit. *Prerequisites:* MUST 2316 and department approval.

3317 Applied Audio Production (3-0)

Advanced study of recording techniques and post-audio production. Topics may include advanced MIDI programming, live instruments, microphone techniques. Includes artistic and business theories and how they apply to production. May be repeated for credit. *Prerequisite:* MUST 2316.

3319 Advanced Composition (3-0)

Advanced study of composition with increasing emphasis on contemporary techniques and larger forms. May be repeated for credit. *Prerequisites:* MUST 2219 and admission to the theory/composition curriculum as a major or equivalent.

3341 Introduction to the Recording Studio (3-0)

Introduction to the Recording Studio-a survey class introducing the many facets of the studio; history and development of sound recording technologies.

4211 Twentieth-Century Techniques (2-0)

A chronological and stylistic study of the compositional techniques that are unique to the twentieth century. *Prerequisites:* MJST 2112 and MUST 2314 each with a grade of "C" or better and a passing grade on the Music Theory Advancement Exam and permission of the instructor.

4212 Independent Study (0-0-2)

An opportunity for the development of a specialized research project for music theory and composition majors. *Prerequisites:* MJST 2112 and MJST 2314 each with a grade of "C" or better, a passing grade on the Music Theory Advancement Exam and permission of the instructor.

4315 Introduction to the Music Business (3-0)

Introduction to the music business, including publishing, copywriting, contracts and other topics. *Prerequisite:* Department approval.

See the *Graduate Catalog* for graduate programs and courses.

★ Indicates Texas Common Course Number

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Philosophy

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CHAIRPERSON: Jules Simon
ASSOCIATE PROFESSOR EMERITUS: Peter Robinson
PROFESSOR: Haddox
ASSOCIATE PROFESSORS: Best, Springer, Simon, Symons
ASSISTANT PROFESSOR: Ferret

Bachelor of Arts in Philosophy Degree

The requirements for a Bachelor of Arts in Philosophy are 30 semester hours of philosophy courses, 21 hours of which are advanced (3300-4300) and 3 hours of which are at the lower level. The following courses are required: PHIL 1304, PHIL 3314, PHIL 3317, PHIL 3335, PHIL 4351, PHIL 4352, and either PHIL 3315 or PHIL 3318.

The requirements for a minor in Philosophy are 18 semester hours of Philosophy of which 9 are advanced (3300-4300). The following courses are required: PHIL 3314, PHIL 3317, PHIL 3335, and either PHIL 4351 or PHIL 4352.

Philosophy (PHIL)

1301 Introduction to Philosophy (3-0)

PHIL 1301

This course introduces students to some of the major issues in philosophy. The ideas, eras, and important philosophers will be examined. The traditional categories of reality, knowledge, values, and meaning will be the focus, though recent and comparative areas may be included. The development of the student's critical thinking skills is the major objective of this course.

1304 Logic (3-0)

PHIL 2303

A survey of modern logic including traditional logic, fallacies, sentential logic, and predicate logic.

2306 Ethics (3-0)

PHIL 2306

An introduction to topics and core problems relating to the moral evaluation of human motivation and action. The course examines the positions of classical philosophers such as Aristotle, Hume, Kant, Mill, and Sartre, as well as contemporary moral problems that relate to human rights, animal rights and environmental ethics.

2313 Chicanos and American Thought (3-0)

After an analysis of the intellectual heritage (Pre-Hispanic, Spanish, and Mexican) of the present-day Chicano, contemporary Chicano value orientations are compared and contrasted with such orientations in American society.

General Prerequisite: Junior standing for all 3300 and 4300-level courses.

3301 Philosophy of Mind (3-0)

This course is a survey of central issues in contemporary philosophy of mind. We will consider different accounts of the relation between minds and the physical world, including whether computers could ever have thoughts or consciousness. Central to our investigation will be the problem of how mental states causally interact with neural states. In addition, we will address questions concerning how much our thoughts and experiences depend on the nature of our environments, and how much they are determined by our innate dispositions. *Prerequisites:* 1 undergraduate philosophy course or permission of instructor and department approval.

3302 Ethical Theory (3-0)

Considers the history and development of ethical theory in a comparative Asian/Western context. Theories such as utilitarianism, deontology, contractarianism, communitarianism, pacifism, anarchism, pragmatism, and virtue ethics may be discussed within the context of a diversity of thinkers and textual resources.

3303 Philosophy of Education (3-0)

Analyzes classical and contemporary theories and practices of education in a global perspective, using mainstream, alternative, and critical approaches. This course often team taught with professors from Education.

3304 Philosophy of History (3-0)

Topics will include matters such as the debate between idealist and materialist interpretations of history, the question of historical "laws" and determinism, the debate over "progress" in history, and the relation between the social and natural sciences. *Prerequisite:* PHIL 1301 or PHIL 2306 or PHIL 1304 each with a grade of "C" or better, or instructor approval.

3305 Philosophy of Law (3-0)

Analyzes legal issues, theories, and case studies within the framework of Western ethical, social, and political philosophies and the history of jurisprudence. Topics include the origins of law, the relations of law, custom, and ritual, the question of legal "rights", justice, authority and sovereignty, responsibilities and obligations, property rights and distributive justice, pacifism, and civil disobedience. *Prerequisite:* PHIL 1301 or PHIL 2306 or PHIL 1304 each with a grade of "C" or better, or instructor approval.

3308 Aesthetics: Philosophy of Art (3-0)

An overview of the principal philosophical theories regarding the nature of art and aesthetic sensibility. Examines attempts to define art, explores the foundational ideas of art criticism and also attempts to relate art to other concerns such as religion, sciences, ethics, politics, and everyday life.

3311 Philosophy of Science (3-0)

Diversity of topics and issues open to the instructor, including the debate between scientific realists and various anti-realists (empiricists, phenomenologists, instrumentalists, social constructivists); Kuhn and the sociology of knowledge, post-Kuhnian thinkers such as Lakatos, Latour, and Feyerabend; and feminist and post modern/postcolonial critiques of science. May also focus on the work on major scientific thinkers like Galileo, Newton, Darwin, and Einstein.

3312 Latin American Thought (3-0)

After a survey of philosophical developments in Latin America during the colonial period, during the struggles for independence, and in the nineteenth century, the thought of major twentieth century intellectual leaders in Latin America is examined. These include professional philosophers but also certain literary and political figures who expressed significant and influential philosophical positions.

3313 American Philosophy (3-0)

A consideration of principal figures who have shaped the American philosophical sensibility. Such individuals may include Edwards, Jefferson, Franklin, Emerson, Thoreau, Whitman, Dickinson, Melville, Pierce, James, Dewey, and Rorty.

3314 Ancient Philosophy: The Origins of Western Thought (3-0)

Studies the origin and development of those ideas and problems which have come to characterize the philosophic tradition in the West as reflected in the thought of the Pre-Socratics, Socrates, Plato, Aristotle, and the Stoics.

3315 Medieval Philosophy: The Scholastic Synthesis (3-0)

Studies the philosophies of the medieval Western and Eastern Mediterranean cultures. Philosophers to be examined include Augustine, Boethius, Ibn-Cina, Ibn-Rushd, Ibn-Gabriel, Maimonides, Aquinas, Scotus, Bonaventure, and Occam.

3317 Modern Philosophy (3-0)

This course focuses on the classical philosophical traditions of Rationalism (Descartes, Spinoza, Leibniz), Empiricism (Locke, Berkeley, Hume), and the critical, ethical philosophy of Kant. Other topics could also include examination of the emergence of the scientific method, and Enlightenment figures such as Voltaire and Diderot.

3318 Nineteenth Century Philosophy (3-0)

Examines topics such as the reaction to Kant's critiques by Positivism (Comte and followers) on the one hand, and Idealism (Fichte, Schelling, Hegel) on the other. The course also examines the philosophical impact of major figures such as Darwin, Marx, Kierkegaard, and Nietzsche.

3322 Philosophy of Religion (3-0)

This course is not a comparative study of religion, but rather provides an opportunity to examine the phenomena of western and non-western religions philosophically. The content of this course will vary according to the instructor but could examine such issues as belief and knowledge in God, gods, or goddesses; religious myth, experience and ritual; religious community, and religious ethics.

3325 Social Philosophy (3-0)

This course examines the philosophical and political issues of social existence. It considers topics such as justice, freedom, rights, authority, social contract theory, political legitimacy, civil disobedience, feminism, postmodern theory, environmental theory, distributive justice, as well as various socio-political ideologies such as liberalism, capitalism, socialism, fascism, and anarchism.

3335 Twentieth Century Philosophy (3-0)

This course will consider the principal forms of contemporary philosophy, such as logical positivism, linguistic analysis, existentialism, phenomenology, critical theory and postmodernism. May be repeated when course content varies.

3340 Asian Philosophies (3-0)

A consideration of classical Asian philosophical texts and traditions. Topics are normally selected from either the Chinese or Indian traditions. A course on classical Chinese philosophy would focus upon the principal texts of Confucianism and Daoism. A focus upon Indian philosophy would lead to a consideration of schools such as Advaita Vedanta, Upanishadic Theism, and Nyaya.

4302 Metaphysics (3-0)

Often called ontology or speculative philosophy, metaphysics studies the attempts to develop coherent sets of principles by which to understand comprehensive notions such as being and change, appearance and reality, God, freedom, mind, and the universe.

4304 Latin American Philosophy (3-0)

A detailed examination of the philosophical positions of such nineteenth and twentieth century Latin American scholars as Domingo Faustino (Argentina), Jose Enrique Rodo (Uruguay), Francisco Romero (Argentina), Carlos Vaz Ferreira (Uruguay), and the Mexicans: Jose Vasconcelos, Antonio Caso, Vincente Lombardo Toledano, and Samuel Ramos. Prerequisites: 1 Undergraduate Philosophy course or instructor approval and department approval.

4306 Philosophical Methods (3-0)

A close analysis of specific texts in World Philosophy, the sciences, and literature aimed at understanding the origins of the plurality of perspectives in accordance with which we have come to understand the world. Presents students with a variety of approaches used to learn and practice philosophy, ranging from the Socratic method, phenomenology, analytical philosophy to feminism, critical theory, and postmodern theory. *Prerequisites:* 1 undergraduate philosophy course or instructor approval and department approval.

4311 Theories of Knowledge (3-0)

Analysis of the philosophical problems regarding the origins, criteria, and limits of knowledge. Discusses classic debates such as between rationalism and empiricism and realism and non-realism, as well as more current issues including cognitive science, cognitive neuroscience, cognitive ethology (animal intelligence), artificial intelligence, robotics, artificial life, and how these developments are producing new paradigms of mind and knowledge.

4351 Great Philosophers (3-0)

The life and work of one or more of the most influential thinkers in world philosophy will be the focus of this course. Such thinkers include Confucius, Plato, Aristotle, Ortega, Nietzsche, Marx, Kant, Hegel, Dewey, Singer. May be repeated when the course content varies. *Prerequisite:* Junior standing.

4352 Problems in Philosophy Seminar (3-0)

A course with issues of current interest to contemporary philosophers. Recent topics have included postmodernism, literature and philosophy, technological society, movies and the making of the American mind, the emergence of world philosophy, and medical ethics. *Prerequisite:* Junior standing.

4353 Independent Study (0-0-3)

Student research under supervision of the staff. *Prerequisite:* Instructor approval.

See the *Graduate Catalog* for graduate courses.

✦ Indicates Texas Common Course Number

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Political Science

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CHAIRPERSON: Gregory Schmidt
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ASSOCIATE PROFESSOR EMERITUS: Thomas J. Price
PROFESSORS: Graves, Kruszewski, Schmidt, Staudt, Webking
ASSOCIATE PROFESSORS: Coronado, Rocha, Weaver
ASSISTANT PROFESSORS: Boehmer, Genna, Hiroi, Payan

Major in Political Science

In addition to POLS 2310-POLS 2311, the major requires 27 semester hours in Political Science, including POLS 2312, which should be taken in the sophomore year. At least one course must be taken in three of the following subfields: American Political Behavior and Institutions, Law and Politics, International Relations, Comparative Politics, Political Thought and Theory, and Public Administration. Each major must also complete a minor of at least 18 hours. The minor may be from another liberal arts discipline, from approved interdisciplinary minors, or from approved disciplines in other colleges, and should be selected in consultation with the departmental undergraduate advisor.

Minors in Political Science

Three options are available to students majoring in other disciplines:

Political Science-18 hours, including POLS 2312, one advanced course in each of three of the six subfields, and 6 additional hours in Political Science.

Comparative and International Politics-18 hours, including POLS 3360, POLS 3339, and 12 advanced hours from the subfields.

Public Administration-18 hours, including POLS 3350, POLS 3352, and POLS 4354 and 3 courses from POLS 3311, POLS 3351, POLS 3352, POLS 4310, POLS 4355, and POLS 3354.

European Studies

For students who wish to complete an education in European Studies that is more thorough and rigorous than a minor, the Department of Political Science offers a major in Political Science with a concentration in European Studies. Students wishing to take advantage of this concentration should follow this plan:

1. Major in Political Science and include in the courses used to satisfy the requirements for the major POLS 3360, POLS 3332, POLS 3339, POLS 4330, POLS 4346, POLS 4347, and POLS 3345.
2. Minor in European Studies (as described elsewhere in this catalog), substituting other core courses for POLS 4346 and POLS 4347.
3. Satisfy the language requirement with GERM 2301 and GERM 2302, FREN 2301 and FREN 2302 or SPAN 2301 and SPAN 2302.

Departmental Honors in Political Science

Outstanding students may complete an Honors Thesis. For details, students should consult with the Chairperson.

Teacher Certification

For information on certification in the composite social studies area, students should refer to the Liberal Arts section of this catalog.

Political Science (POLS)

POLS 2310-POLS 2311 fulfill the legislative requirements of the State of Texas for courses on the Constitutions of the United States and Texas.

2310 Introduction to Politics (3-0)

(*) GOVT 2305

An overview of the concepts, principles, and practices of politics as background for the study of American and Texas political institutions. The course may employ an international, comparative, or theoretical focus. *Prerequisite:* Freshman standing.

2311 American Government and Politics (3-0)

(📌 GOVT 2306)

A survey of contemporary American national, state, and local political processes and institutions, with emphasis upon the Constitutions of the United States and Texas. This course meets teacher certification requirements for out-of-state graduate students. *Prerequisite:* Freshman standing.

2312 The Study of Politics (3-0)

A review of the various techniques used in the study of politics. Students will examine political situations and prepare written reports on their findings. A grade of "C" or better is required for majors and minors. *Prerequisite:* POLS 2310.

General Prerequisite: Junior standing for all 3300 and 4300-level courses.

American Political Behavior and Institutions

3312 The Party System Campaigns and Elections (3-0)

An analysis of the nature and role of political parties and interest groups and their impact on both the electoral and policymaking processes. *Prerequisites:* POLS 2310 and POLS 2311.

3313 Public Opinion, Media and Technology (3-0)

An analysis of the influence of American culture, politics and the media, and technology on political socialization and public opinion. The measurement of public opinion and its influence on our elected officials and public policymaking will also be considered. *Prerequisites:* POLS 2310 and POLS 2311.

3314 Ethnicity and Race in American Politics (3-0)

An analysis of how the combined effects of race, ethnicity and social class affect both citizens and the political process. *Prerequisites:* POLS 2310 and POLS 2311.

4304 Environmental Justice and Minority Communities in the U.S. (3-0)

An examination of environmental justice issues in the U.S., with an emphasis on communities, agencies and efforts that address sustainable development in the U.S.-Mexico border region. The underpinnings of the environmental justice movement in the U.S. and the regional policy formulation and practice implications for these communities will be central to the course. The course may require field trips. (POLS 4304 is the same course as AFST 4304; SOCI 4304; ANTH 4304; and CHIC 4304.) *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4310 American Legislatures (3-0)

An examination of the organization, behavior and work of Congress and/or state legislatures in the practice of lawmaking. It will include discussion of the interaction of those legislatures with executives (the president and governor), bureaucracies, and the judiciary in the policymaking process. *Prerequisites:* POLS 2310 and POLS 2311.

4311 The Presidency (3-0)

An analysis and interpretation of the office of the President in relation to the functions, roles, powers, and duties in both domestic and foreign affairs. *Prerequisites:* POLS 2310 and POLS 2311.

4313 Southwestern Border Politics (3-0)

An examination of how the structure of state and local governments on the United States-Mexico border affects politics in the region. Special emphasis will be given to the study of the electorate, cross-boundary issues and the relationship between the border regions to the federal governments of both countries. *Prerequisites:* POLS 2310 and POLS 2311.

4314 Women, Power, and Politics (3-0)

This course focuses on the distribution of power between women and men in society and the political implications of that distribution. *Prerequisites:* POLS 2310 and POLS 2311.

4315 Latinos in the American Political System (3-0)

An overview of Latinos in the American political system with emphasis on their impact on political participation, representation, demographic changes, and their quest for political empowerment. *Prerequisites:* POLS 2310 and POLS 2311.

4318 Teaching Democracy (3-0)

Examines various civic education content and pedagogical strategies in K-12 education. Also examines public education policy. Especially useful for those who may enter the teaching profession. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4319 Special Topics in American Politics (3-0)

A special listing for courses in the field of American politics that are outside the purview of the above courses but are offered by the departmental faculty. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

Law and Politics

3320 Constitutional Law (3-0)

A study through the use of court cases of the allocation of governmental powers with emphasis on the national government and an introduction to the judicial function and

study through the use of both cases of the allocation of governmental powers with emphasis on the national government, and an introduction to the judicial system and the American legal system. *Prerequisites:* POLS 2310 and POLS 2311.

3321 Civil Rights and Liberties (3-0)

A study of the limitations on governmental power in the United States, with primary emphasis on civil and political rights. *Prerequisites:* POLS 2310 and POLS 2311.

3322 Law and Society (3-0)

An examination of the legal-judicial arrangements in the Western world and particularly the United States, with emphasis on the interaction of legal systems with society. *Prerequisites:* POLS 2310 and POLS 2311.

4322 Legal Reasoning (3-0)

An examination of the method of reasoning about legal problems which arose out of the common law tradition. A core area of the common law (torts, criminal law, contracts, or property) will be explored in depth through the reading and analysis of case law. The techniques of reasoning in cases will be applied to hypothetical and new case materials. *Prerequisites:* POLS 2310 and POLS 3211.

4323 Courts in Action (6-0)

This unique course combines instruction in both the theory and practice of law. Through case readings, students will learn about substantive legal issues, how they are analytically treated in legal theory and how they are applied in litigation. Students will also learn about the practical aspects of law by attending actual trials, sentencings, and hearings held both on and off campus, and by talking with lawyers, judges, juries, and law enforcement officers. The course will also include tours through prison and detention facilities, courts, and other institutional settings. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4324 Introduction to Private Law (3-0)

This course introduces students to the main concepts and considerations and public policy implications of the law of torts, contracts, and property. Issues discussed may range from governmental liability for injuring and killing citizens to the patenting and ownership of new genetic configurations or genetically engineered animals and plants. Particular attention will be given to governmental abuse of power and the private law remedies for such abuse. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4325 Special Topics in Law and Politics (3-0)

A special listing for courses in the field of Law and Politics offered by the Departmental faculty that are outside the purview of the above courses. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

International Relations

3360 International Relations (3-0)

The theory and practice of international politics with particular attention to the forces and processes contributing to conflict and cooperation among global political structures and institutions. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

3361 International Security (3-0)

An investigation into matters related to the security of countries around the world, that pays particular attention to issues such as the proliferation of weapons of mass destruction, international war, terrorism, civil war, genocide, disease and ecological disaster. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

3362 International Law and Politics (3-0)

A course that explores the intersection of international law and international politics. Particular attention will be paid to international legal philosophies and the development of international law over time. *Prerequisites:* POLS 2310 and POLS 2311 each with a minimum grade of "C" or better.

4330 Foreign Policy of the United States (3-0)

A study of the structures and processes of United States foreign policy decision-making. *Prerequisites:* POLS 2310 and POLS 2311.

4339 U.S.-Latin American Relations (3-0)

Explores the relations between the United States and the countries of Latin America. Issues examined may include economic integration, narco trafficking, environmental policy, and immigration. Issue and country focus may vary depending on the instructor. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4364 International Political Economy (3-0)

An examination of the relationship between international politics, national policies, and economics regarding international trade, investments, debt, monetary policy and oil. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4365 International Organizations (3-0)

Examines the development of international organization, such as NATO and the United Nations and considers the legal and constitutional aspects of their creation. It also presents the tools to evaluate the success of international organizations in the management of conflict and the advancement of social, economic and political cooperation. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4366 Special Topics in International Relations (3-0)

A special listing for courses in the field of International Relations offered by the departmental faculty that are outside the purview of the above courses. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

Comparative Politics

3332 Political Geography (3-0)

The study of political phenomena and the impact of decision-making in their special context. *Prerequisites:* POLS 2310 and POLS 2311.

3334 Politics in World Regions (3-0)

The study of political institutions and processes in regions such as Africa, the Middle East and Asia. The course may be repeated under a different topic and/or instructor. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

3337 Latin American Politics (3-0)

A survey of the political institutions and processes of major countries in Latin America. Emphasis is placed on sources of political cleavage and the problems of stability and instability within countries of the region. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

3339 Comparative Political Systems (3-0)

An examination of theories and methods used in comparative political analysis with illustrative cases drawn from a variety of political cultures. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

3345 Democracy and Democratization (3-0)

Examines the nature and requisites of democracy, the phenomenon of transitions from non-democratic rule, and the challenges of consolidating and deepening new democracies. Case studies of democratic transition from various world regions will be discussed for comparative purposes. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4337 The Politics of Mexico (3-0)

A study of the political processes and institutions within Mexico. Attention will be given to the political culture of Mexico, the role of interest groups and political parties, the nature of federalism and separation of powers, public policy and administration, and human rights. *Prerequisites:* POLS 2310 and POLS 2311.

4346 Russia's Challenges in the 21st Century (3-0)

An analysis of the sociopolitical problems and challenges facing Russia at the onset of the 21st Century, against the background of the policy choices available in the post-communist and post-9/11 conditions. An assessment of those choices will be made in terms of Russia's historical and political experiences. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4347 European Union Politics (3-0)

An advanced study of the political structures emerging from the integration of New Europe. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4348 Politics of Developing Countries (3-0)

The study of political culture, institutions and processes of developing countries. Emphasis is placed on institution building, economic development, and ethnic conflict. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4350 Special Topics in Comparative Government (3-0)

A special listing for courses in the field of comparative politics offered by the departmental faculty that are outside the purview of the above courses. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

Political Thought and Theory

3340 Western Political Heritage I (3-0)

A study of the ideas of the major political philosophers from the ancient and medieval periods. *Prerequisites:* POLS 2310 and POLS 2311.

3341 Western Political Heritage II (3-0)

A study of the ideas of the major political philosophers from the Renaissance through the Nineteenth Century. *Prerequisites:* POLS 2310 and POLS 2311.

3342 American Political Thought (3-0)

A study of American political thought from the colonial period to the present. *Prerequisites:* POLS 2310 and POLS 2311.

4340 The American Constitution (3-0)

An analysis of America's founding document and its evolution over time. *Prerequisites:* POLS 2310 and POLS 2311.

4342 Contemporary Political Thought (3-0)

The ideas of contemporary political thinkers concerning the issues of democracy, dictatorships, and the relations between economic systems and political systems. Emphasis also will be placed upon the process of political theorizing today. *Prerequisites:* POLS 2310 and POLS 2311.

4344 Special Topics in Political Theory (3-0)

A special listing for courses in the field of political theory offered by the departmental faculty that are outside the purview of the above courses. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

Public Administration

3350 Introduction to Public Administration (3-0)

A study of management processes involved in the accomplishing of government; analysis of the structure and procedures of the administrative or executive branch of government, with particular reference to national, state, and local governments in the United States. *Prerequisites:* POLS 2310 and POLS 2311.

3351 Public Policy Process (3-0)

Issues and techniques in the analysis of public agenda-building, decision-making, implementation, and evaluation. Course may be comparative in content and may be repeated under different topic and/or instructor. *Prerequisites:* POLS 2310 and POLS 2311.

3353 State and Local Administration (3-0)

The administration of state government in the United States with emphasis on administration in the state of Texas. *Prerequisites:* POLS 2310, POLS 2311, and Junior standing.

4356 Grant Writing for Development (3-0)

A skill-building course that takes students through the grant-writing process, from narrative to budget, timeline, and evaluation. Focus: international and border. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4357 Leadership and Civic Participation (3-0)

Theories and applications on leadership development, relationships with others and strategies in different contexts. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4358 Special Topics in Public Administration (3-0)

A special listing for courses in the field of Public Administration offered by the departmental faculty that are outside the purview of the above courses. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

General

3354 Internship (0-0-3)

A course offered for students who have, or want to be assigned to, a work-related experience that is relevant to Political Science. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4300 Advanced Research Methods in Political Science (3-0)

A study of advanced data generation and statistical analysis techniques. Students will use these techniques in individual or group research projects. *Prerequisites:* POLS 2310, POLS 2311 and POLS 2312 each with a grade of "C" or better.

4370 Independent Reading and Research in Political Science (0-0-3)

A research and writing experience for undergraduates in Political Science. Prior approval of the instructor and departmental chair is required before enrollment. *Prerequisites:* POLS 2310 and POLS 2311.

4392 Advanced Analysis of Politics (3-0)

A research course that stresses the use of qualitative research methods and techniques. Prior approval of the instructor and departmental chair is required before enrollment. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better.

4399 Senior Capstone (0-0-3)

A course that is designed to assess the ability of the student to utilize what he or she has learned through the research and writing of a senior paper. Prior approval of the instructor and departmental chair is required before enrollment. *Prerequisites:* POLS 2310 and POLS 2311 each with a grade of "C" or better and department approval. The student must be in the final semester of study.

See the *Graduate Catalog* for graduate programs and courses.

📍 Indicates Texas Common Course Number

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Religious Studies

211 Worrell Hall
(915) 747-7945
religion@utep.edu

COORDINATOR: Bruce Lawson

Minor in Religious Studies

The Religious Studies Program is designed to provide an interdisciplinary framework within which students can take courses to explore the nature of religion and its impact upon human culture, past and present. Courses are academic in nature and non-sectarian.

Students must complete 18 hours of courses approved by the Coordinator of Religious Studies, of which at least 12 must be at the upper-division level. Of the 18 hours, students must take 9 hours of core courses, selecting one course from each of the following categories:

1. Introduction to Religious Studies: RS 1301 Introduction to Religious Studies
2. World Religions: HIST 3331 History of Religion in the East, HIST 3359 History of Religion in the West, RS 3310 Major World Religions
3. Nature of Religious Experience: PHIL 3322 Philosophy of Religion

The remaining 9 hours of courses needed for the concentration may be selected from among core courses not taken to satisfy the core requirement, non-core courses (listed below), or other courses approved by the Coordinator. No more than six hours from a student's major may be counted toward the minor, and courses so counting may not be used to satisfy major requirements.

Non-Core Courses

| | | |
|------|------|-------------------------------------|
| ARTH | 1305 | Art History of the Western World I |
| GREK | 1405 | Koine Greek |
| GREK | 1406 | Koine Greek |
| HIST | 3340 | The Middle East and Islam |
| HIST | 3365 | The Age of Reformation |
| PHIL | 3315 | Medieval Philosophy |
| PHIL | 3340 | Oriental Philosophy |
| RS | 3350 | Special Topics in Religious Studies |

Religious Studies (RS)

1301 Introduction to Religious Studies (3-0)

An introduction to religious concepts, sociology, phenomena, and ideas; survey of world religions; exploration of the relationship between ethics and religion.

3310 Major World Religions (3-0)

Brief examination of the world's major religions, followed by an in-depth study of one religion, such as Buddhism, Christianity, Hinduism, Islam, or Judaism. Course may be repeated for credit when main focus of the course varies.

3350 Special Topics in Religious Studies (3-0)

An advanced course in some aspect of Religious Studies. May be repeated for credit when topic varies.



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Sociology and Anthropology

109 Old Main
(915) 747-5740
soci@utep.edu

CHAIRPERSON: Josiah Heyman
PROFESSORS EMERITI: Julius Rivera, Ellwyn Stoddard
PROFESSOR: Campbell, Daudistel, Heyman
ASSOCIATE PROFESSORS: Carmichael, Curry, Howard, Luykx, Rodríguez
ASSISTANT PROFESSORS: Collins, Grineski, Lee, Morales, Núñez

Major in Sociology

Specific requirements are 30 semester hours in Sociology, of which 21 must be at the advanced (3300-4300) level, including SOCI 1301, 2312, 3311, and 4301.

Major in Anthropology

Specific requirements are 30 semester hours in Anthropology, of which at least 18 must be at the advanced (3300-4300) level. ANTH 1301, 1302, and 4380 are required. In addition, two courses must be taken from each of two groups: Archaeology and Physical Anthropology group (1300, 3303, 3304, 3309, 3310, 3347, 3359, 3360, 3380, 3647) and Cultural Anthropology group (3303, 3306, 3309, 3311, 3314, 3315, 3319, 3320, 3321, 3358, 3361, 4308). Other courses (e.g., 4370-Studies in Anthropology) may be substituted in by permission of the department, depending on topic. Single courses may not be double counted for both groups. Students are encouraged to gain fieldwork experience; ANTH 3347 and/or 3647 and/or 3358 are strongly recommended. Two semesters of field courses may be counted toward the major, provided the research topics differ.

Minor in Sociology

Eighteen semester hours of Sociology are required, 9 of which must be advanced level (including SOCI 1301, 3311, and 4301).

Minor in Anthropology

Eighteen semester hours in Anthropology, including at least 9 at the advanced level. ANTH 1301, 1302, and 4380 are required.

Applied Cultural Anthropology Certificate

Official Requirements

Required: Major or Minor in Anthropology to include the following:
Required: ANTH 3311 Applied Cultural Anthropology.
Required: ANTH 3358 Ethnographic Methods.
Required: ANTH 4303 Internship in Anthropology taken twice, amounting to six credits.
or
Three credits of internship plus one course from ANTH 3303, 3315, or 3380
Total: 12 credits as part of major or minor.

Cultural Heritage Management Certificate

Official Requirements

Required: Major or Minor in Anthropology to include the following:
Required: ANTH 3380 Cultural and Environmental Resource Management
Required: ANTH 3647 Archeological Field Studies. (ANTH 4303, Internship in Anthropology, may be substituted for this requirement with permission of the department, in cases where the work involves Cultural Resource Management. The internship may be taken for two semesters [six credits] or the student may take three internship credits and add an additional three credits from ANTH 3358, 3359, or 3360, with no double counting allowed.)
Required: ANTH 3359, Archeological Methods
or
ANTH 3360, Laboratory Methods in Archeology.
Total: 12 credits as part of major or minor.

Anthropology (ANTH)

1101 Laboratory for ANTH 1301 (0-2)

Introduction to the nature and interpretation of archeological artifacts and hominoid remains. Emphasis is on processes of making inferences from physical remains.
Prerequisite: ANTH 1301. ANTH 1301 may be taken concurrently with ANTH 1101.

Prerequisite: ANTH 1301. ANTH 1301 may be taken concurrently with ANTH 1301.

1301 Introduction to Physical Anthropology and Archeology (3-0)

(👉 ANTH 2301 and ANTH 2302; ANTH 2346)

Introduction to the evolution of the human adaptive system with particular attention to the somatic and technological components. The biological development of man, from 3.5-million-year-old Lucy to modern *Homo sapiens*, is discussed and correlated with developments in stone and bronze tools, dwelling types, social groupings, political organization, etc. This course is not prerequisite to ANTH 1302.

1302 Introduction to Cultural Anthropology (3-0)

(👉 ANTH 2351)

Introduction to the evolution of human behavioral systems with particular attention to the social and cultural, or ideational components. The variety of types of societies and ideologies is discussed together with the ecological situations to which they are adapted.

1310 Cultural Geography (3-0)

Introduction to cultural elements, their spatial distribution, and their interrelationship to the physical environment. (ANTH 1310 is the same course as GEOG 1310 and SOCI 1310.)

1311 Social Dimensions of Science and Technology (3-0)

Science and technology examined from the perspective of sociological and anthropological theories and methods. The course emphasizes the social character of scientific and technological activities from early to contemporary societies. Possible topics include technologically-oriented workplaces, complex technical systems in society, science and technology in development, and interactions between scientific and non-scientific cultural frameworks. (ANTH 1311 is the same course as SOCI 1311.)

2320 Introduction to Linguistics (3-0)

Introduction to basic concepts and techniques of modern linguistics.

3303 Ecological Anthropology (3-0)

The study of human societies as part of ecological systems. The use of ecological principles and models in anthropological description and explanation is discussed. Folk models of ecology are also considered. Recommended background: ANTH 1301 and ANTH 1302. (ANTH 3303 is the same course as SOCI 3300.)

3304 Biological Anthropology (3-0)

The course focuses on human evolution and the biological basis for human behavior. Topics include human phylogeny, physical and behavioral adaptation, genetics, and human diversity. *Prerequisite:* ANTH 1301.

3306 Cultural Diversity (3-0)

A cross-cultural comparison of human behavior addressing the areas of family life, marriage, kinship, and ritual. The course will also deal with the potential for misunderstandings that arise in the context of cross-cultural interactions. (ANTH 3306 is the same course as SOCI 3306.)

3309 Mesoamerican Cultures (3-0)

A survey of the prehistoric, through contemporary cultures of Mesoamerica, including (among others) Olmec, Maya, Toltec, Aztec, colonial New Spain, Mexico, and Central America. Emphasis will be put on the historical continuities and transformations of Mesoamerica, connecting the past to the present. Recommended background: ANTH 1301 and ANTH 1302. (ANTH 3309 is the same course as SOCI 3309.)

3310 Southwestern Archeology (3-0)

The development and characteristics of prehistoric Indian societies, from the Elephant Hunters to the Pueblos, is considered with particular attention to the Mogollon, Hohokam, Anasazi, and Casas Grandes areas. Ties of the area to nuclear Mesoamerica will be discussed. Recommended background: ANTH 1301.

3311 Applied Cultural Anthropology (3-0)

This course explores applications of cultural anthropological research methods and knowledge. Applications include business, health, non-profit organizations, social services and social justice, environmental management, and education. Students will explore personal and career interests, gaining practical training through class and individual projects, as well as mastering the fundamental literature of applied anthropology. Recommended background: ANTH 1302.

3313 Historic Archeology of the El Paso - Ciudad Juárez Area (3-0)

The course provides an overview of the historic development of the El Paso-Ciudad Juárez region from the earliest mission and presidio settlements to the modern bi-national metropolis. Evidence from archeological materials and archival documents will be considered. Recommended background: ANTH 1301.

3315 Urban Anthropology (3-0)

A consideration of the nature of cities, both non-Western and Western, Pre-industrial and industrial. The impact of urbanization upon a region and upon individuals will be discussed. Recommended background: ANTH 1302. (SOCI 3315 is the same course as ANTH 3315.)

3319 Indigenous Cultures of Latin America (3-0)

A survey of the Native American cultures of Latin America, focusing on patterns of similarity among groups, and the distribution of different adaptations relative to environmental diversity. Attention will be paid to circumstances and actions of indigenous peoples in contemporary Latin America. Recommended background: ANTH 1302. (SOCI 3317 is the same course as ANTH 3319.)

3320 Indigenous Cultures of North America (3-0)

3320 Indigenous Cultures of North America (3-0)

A survey of Native American cultures of the United States and Canada, with an emphasis on their development in various environmental settings, and the regulatory and legal contexts in which they now exist. Recommended background: ANTH 1302. (ANTH 3320 is the same course as SOCI 3320.)

3321 Indians of the Southwest (3-0)

Ethnographic and ethnohistorical perspectives on the socio-politics, economics, belief systems, and technologies of contemporary Native American groups such as the Apache, Hopi, Hualapai, Navajo, Pima, Tarahumara, and Tohono O'odham. May include guest lectures by tribal representatives. Recommended background: ANTH 1302. (ANTH 3321 is the same course as SOCI 3321.)

3325 Chicanos and Mexicans in the United States (3-0)

Major social and cultural aspects of the Mexican-origin experience in the United States, including immigrant and generationally-deep populations. Topics may include families, kin, and networks, communities, work, consumption, ethnic identity and racism, social and political movements, religion, gender, and cultural hybridity and change. (ANTH 3325 is the same course as SOCI 3325).

3326 Migration (3-0)

Covers migration within and across borders. Considers major theories of migration, social and cultural dimensions of migration, and the experience of migrants. Topics may include migrant/immigrant labor, social and cultural integration, gender, immigration laws and policies, undocumented status, and new directions in migration research. (ANTH 3326 is the same course as SOCI 3326).

3332 Introduction to Geographic Information Systems for the Social Sciences (2-2)

Provides an introduction to Geographic Information Systems (GIS), a tool for integrating and analyzing spatial data to visualize relationships, seek explanations, and develop solutions to pressing societal problems. The foundations of GIS will be emphasized in relation to its applicability in the social sciences. Students will demonstrate knowledge about the history of GIS, data quality and acquisition, interpretation and analysis, and real-world GIS applications. Includes a lab component in which students perform a variety of problem-solving tasks to demonstrate concepts covered in lectures. (ANTH 3332 is the same course as SOCI 3332).

3340 Popular Archeology: Exploring Myths and Mysteries (3-0)

Key concepts and approaches in archeology with an emphasis on what archeology means to the public. Emphasis is on developing students' abilities to identify and evaluate scientific and pseudoscientific treatments of the archeological record. Includes discussions of ancient astronauts, lost continents, the Moundbuilders, scientific creationism, and psychic archeology.

3347 Archeological Field Studies (0-0-3)

Intensive field course on the recovery and analysis of archeological data. Includes archeological survey and/or excavation and preliminary laboratory analysis. Variable credit. May be repeated when study area or research topic differs. Transportation and/or lodging fees vary according to project location. *Prerequisite:* ANTH 3359 or instructor approval.

3357 Sociolinguistics (3-0)

Language variables and sociological correlates, a review of current research, theories, and applications. Recommended background: LING 3220.

3358 Ethnographic Methods (3-0)

Theory and practice in the elicitation of ethnographic data. Participant observation, interviewing, and the development of questionnaires will be conducted in the laboratory and field settings. *Prerequisite:* ANTH 1302 or instructor approval. (ANTH 3358 is the same course as SOCI 3358.)

3359 Archeological Methods (3-0)

Introduction to the analytical methods used to interpret archeological sites. Topics addressed include sampling, statistical analysis, formulation of hypotheses, and survey and excavation techniques. *Prerequisite:* ANTH 1301 or instructor approval.

3360 Laboratory Methods in Archeology (0-3)

Methods for, and practical experience in, the analysis and interpretation of archeological materials, including ceramics, stone tools, floral and faunal remains, archeological dating, and spatial data. Course will be taught as one 3-hour lecture lab, but individual or group lab projects involving additional time outside class will be required. *Prerequisite:* Open only to majors in anthropology or instructor approval.

3361 Contemporary Mexican Culture (3-0)

A course about social and regional diversity of modern Mexico with special emphasis on indigenous cultures. Recommended background: ANTH 1302. (ANTH 3361 is the same course as SOCI 3361).

3379 Independent Study (0-0-3)

Individual investigation of an area of anthropology that is not adequately covered by an organized class. Periodic meetings, reports, and a major paper are required. *Prerequisite:* Department approval.

3380 Cultural and Environmental Resource Management (3-0)

Provides an introduction to environmental laws and policies that affect the practice of archeology, history, and ethnography in the context of development projects and land management. Among the topics discussed are environmental impact assessment, social impact assessment, historic preservation planning, and traditional cultural properties.

3647 Archeological Field Studies (0-0-6)

Intensive field course on the recovery and analysis of archeological data. Includes archeological survey and/or excavation and preliminary laboratory analysis. Variable credit. May be repeated when study area or research topic differs. Transportation and/or lodging fees vary according to project location. *Prerequisite:* ANTH 3359 or instructor approval.

credit may be repeated when study area or research topics change; transportation and/or lodging fees vary according to project location. Prerequisite: ANTH 1000 or instructor approval.

4303 Internship in Anthropology (0-0-3)

A course in which students do internships relevant to applied cultural anthropology or archeology and cultural heritage management. Weekly reports, meetings with the internship supervisor, and substantial written assignments with academic content are also required of students. The internship gives students opportunities to apply academic training in practical settings, preparing them for careers and advanced study. *Prerequisite:* Department approval.

4304 Environmental Justice and Minority Communities in the U.S. (3-0)

An examination of environmental justice issues in the U.S., with an emphasis on communities, agencies and efforts that address sustainable development in the U.S.-Mexico border region. The underpinnings of the environmental justice movement in the U.S. and the regional policy formulation and practice implications for these communities will be central to the course. The course may require field trips. (ANTH 4304 is the same course as AFST 4304; POLS 4304; SOCI 4304; and CHIC 4304.)

4306 Colonias on the U.S.-Mexico Border (3-0)

A study of the unincorporated population settlements in various regions along the U.S.-Mexico border. Emphasis on public policy and social service issues. The course may require field trips. (ANTH 4306 is the same as CHIC 4306 and SOCI 4306.)

4308 U.S.-Mexico Border Society and Culture (3-0)

An overview of major social and cultural features of the U.S.-Mexico border. Also includes in-depth examination of selected topics such as migration, border crossing and border restriction, global manufacturing and communities, and complex cultural formations. (ANTH 4308 is the same course as SOCI 4308).

4312 Thinking Spatially (3-0)

Provides an appreciation of geographical perspectives on space and place. Students will become familiar with geographical theory and methods, which they will apply to the analysis of important social and natural phenomena, such as health and disease, crime, environmental hazards, urbanization and development, and long-term social and environmental change. (ANTH 4312 is the same course as SOCI 4312)

4313 Advanced Spatial Analysis (3-0)

This course will be problem-based, and the centerpiece will be a semester GIS research project that each student will prepare. This will include definition of a problem amenable to spatial analysis, acquisition of appropriate data sources, organization of the data layers in a GIS, special analysis of the database, and a written and oral presentation of the results. In addition, a selection of advanced concepts and techniques in GIS analysis will be covered. *Prerequisite:* ANTH 3332, or SOCI 3332, or GEOG 3332 with a grade of "C" or better. ANTH 4313 is the same course as SOCI 4313).

4346 Health and Illness in Cross-Cultural Perspective (3-0)

This course examines the cultural and social dimensions of health systems, disease, wellness, and physical and mental illness, both in traditional communities and modern settings. Healing alternatives, health beliefs, and the cultural conflicts between clients and health providers are examined. Because the course explores the culture of professional medical practice as well as the illness and healing concepts of diverse cultures, it is ideal for those pursuing the health professions in cross-cultural settings. Recommended background: ANTH 1301. (ANTH 4346 is the same course as SOCI 4346.)

4365 Museum Fundamentals (2-8)

An introduction to practical aspects of museum work, including organization and display of exhibits, care of collections, communication with visitors, and other museum tasks. Lectures will be combined with opportunities for solving concrete problems.

4370 Studies in Anthropology (3-0)

Subject matter will be announced each semester. May be repeated for credit when topic varies. Among the material that may be covered are the following: foraging bands; tribes; chiefdoms; states; peasant and plantation communities; forensic anthropology; primate behavior; lithic technology.

4380 Theory in Anthropology (3-0)

A discussion of the goals of anthropology with a critical review of current theory and methodology. Recommended background: ANTH 1301 and ANTH 1302.

Sociology (SOCI)

1301 Introduction to Sociology (3-0)

(👉 SOCI 1301)

Nature and scope of sociology, its terminology and concepts; study of social processes, social institutions, development of society, and characteristics of group life.

1302 Social Problems (3-0)

(👉 SOCI 1306)

A study of selected social problems in our society, including causes, interrelationships, and programs of amelioration. Recommended background: SOCI 1301.

1310 Cultural Geography (3-0)

Introduction to cultural elements, their spatial distribution, and their interrelationship to the physical environment. (SOCI 1310 is the same course as GEOG 1310 and ANTH 1310.)

1311 Social Dimensions of Science and Technology (3-0)

Science and technology examined from the perspective of sociological and anthropological theories and methods. The course emphasizes the social character of scientific and technological activities from early to contemporary societies. Possible topics include technologically-oriented workplaces, complex technical systems in society, science and technology in development, and interactions between scientific and non-scientific cultural frameworks. (SOCI 1311 is the same course as ANTH1311.)

2312 Measurement and Inference in Social Research (3-0)

Sociological factors and their measurement, development and use of scales, assumptions underlying the use of statistical models in analysis of social data, application and limitations of statistical analysis. *Prerequisite:* MATH 1319 or MATH 1320, MATH 1409, or MATH 1508.

2315 The Sociology of Marriage and the Family (3-0)

(👉 **SOCI 2301**)

The historical development, current problems, and prospects of the American marriage and family institutions. Recommended background: SOCI 1301.

3300 Ecological Sociology (3-0)

The study of human societies as part of ecological systems. The use of ecological principles and models in sociological description and explanation is discussed. Folk models of ecology are also considered. Recommended background: SOCI 1301. (SOCI 3300 is the same course as ANTH 3303.)

3306 Cultural Diversity (3-0)

A cross-cultural comparison of human behavior addressing the areas of family life, marriage, kinship, and ritual. The course will also deal with the potential for misunderstandings that arise in the context of cross-cultural interactions. Recommended background: SOCI 1301. (SOCI 3306 is the same course as ANTH 3306.)

3309 Mesoamerican Cultures (3-0)

A survey of the prehistoric through contemporary cultures of Mesoamerica, including (among others) Olmec, Maya, Toltec, Aztec, colonial New Spain, Mexico, and Central America. Emphasis will be put on the historical continuities and transformations of Mesoamerica, connecting the past to the present. Recommended background: SOCI 1301. (SOCI 3309 is the same course as ANTH 3309.)

3311 Methods of Research (3-0)

Basic procedure and methodology of sociology as applied by the profession to various areas of social investigation. *Prerequisite:* SOCI 1301.

3315 Urban Sociology (3-0)

A consideration of the nature of cities, both non-Western and Western, preindustrial and industrial. The impact of urbanization upon a region and individuals will be discussed. Recommended background: SOCI 1301. (SOCI 3315 is the same course as ANTH 3315.)

3317 Indigenous Cultures of Latin America (3-0)

A survey of the Native American cultures of Latin America, focusing on patterns of similarity among groups and the distribution of different adaptations relative to environmental diversity. Attention will be paid to circumstances and actions of indigenous peoples in contemporary Latin America. Recommended background: SOCI 1301. (SOCI 3317 is the same course as ANTH 3319.)

3320 Indigenous Cultures of North America (3-0)

A survey of the Native American cultures of the United States and Canada, with an emphasis on their development in various environmental settings and the regulatory and legal contexts in which they now exist. Recommended background: SOCI 1301. (SOCI 3320 is the same course as ANTH 3320.)

3321 Indians of the Southwest (3-0)

Ethnographic and ethnohistorical perspectives on the socio-politics, economics, belief systems, and technologies of contemporary Native American groups such as the Apache, Hopi, Hualapai, Navajo, Pima, Tarahumara, and Tohono Oodham. May include guest lectures by tribal representatives. Recommended background: SOCI 1301. (SOCI 3321 is the same course as ANTH 3321.)

3323 Advanced Social Problems (3-0)

This course addresses social problems by applying advanced sociological analysis. It uses three frameworks to examine social problems: moral standpoints; democratic standpoints; and societal standpoints.

3324 Deviance (3-0)

This course examines the key concept of deviance in terms of how deviant acts and actors can be both functional and dysfunctional to the social order. The course considers: 1) how collective conceptions of "deviant behavior" are created, maintained, and altered over time, 2) the existing theoretical paradigms that organize and account for deviant behavior, 3) the nature and dynamics of deviant behaviors that attract the attention of social scientists, the media, public policy makers and others.

3325 Chicanos and Mexicans in the United States (3-0)

Major social and cultural aspects of the Mexican-origin experience in the United States, including immigrant and generationally-deep populations. Topics may include families, kin, and networks, communities, work, consumption, ethnic identity and racism, social and political movements, religion, gender, and cultural hybridity and change. (SOCI 3325 is the same course as ANTH 3325).

3326 Migration (3-0)

Covers migration within and across borders. Considers major theories of migration, social and cultural dimensions of migration, and the experiences of migrants. Topics may include migrant/immigrant labor, social and cultural integration, gender, immigration laws and policies, undocumented status, and new directions in migration research. SOCI 3326 is the same course as ANTH 3326).

3327 Majority/Minority Relations in the United States (3-0)

A study of the racial and ethnic group relationships in the U.S. concentrating on the dynamics and consequences of prejudice, discrimination, and related factors.

Recommended background: SOCI 1301.

3331 Family Violence (3-0)

This course surveys definitions, prevalence, and theories of family violence in the United States. Special emphasis is given to 1) the impact of variation in definitions of family violence on scientific research and conclusions; 2) the societal response to family violence; 3) the effectiveness of policing strategies of domestic violence. *Prerequisite:* SOCI 1301 with a grade of "C" or better. (SOCI 3331 is the same course as CRJ 3321.)

3332 Introduction to Geographic Information Systems for the Social Sciences

(2-2)

Provides an introduction to Geographic Information Systems (GIS), a tool for integrating and analyzing spatial data to visualize relationships, seek explanations, and develop solutions to pressing societal problems. The foundations of GIS will be emphasized in relation to its applicability in the social sciences. Students will demonstrate knowledge about the history of GIS, data quality and acquisition, interpretation and analysis, and real-world GIS applications. Includes a lab component in which students perform a variety of problem-solving tasks to demonstrate concepts covered in lectures. (SOCI 3332 is the same course as ANTH 3332).

3333 Juvenile Delinquency (3-0)

An investigation of the social and legal definitions of juvenile delinquency; major theories of juvenile deviancy; the social system of the gangs; factors contributing to apprehension, conviction, detention, and parole; assessment of present and potential prevention programs. *Prerequisite:* SOCI 1301.

3341 Special Undergraduate Topics (3-0)

Special topics of current interest in Sociology. May be repeated for credit when topic varies. Topics may include, for example:

–La Chicana

The role of the Chicana in the family and the community as well as Chicanos' participation in the labor force and liberation movements.

–Women in Society

Women in social institutions such as the family, education, economy, and politics in American society as well as their images in popular culture.

Recommended background: SOCI 1301.

3348 Criminology (3-0)

Theories, causes, characteristics, and social function of crime in our society. Methods of prevention and reduction of crime will be analyzed. *Prerequisite:* SOCI 1301.

3358 Ethnographic Methods (3-0)

Theory and practice in the elicitation of ethnographic data. Participant observation, interviewing, and the development of questionnaires will be conducted in the laboratory and field settings. Recommended background: SOCI 1301. (SOCI 3358 is the same course as ANTH 3358.)

3361 Contemporary Mexican Culture (3-0)

A course about social and regional diversity of modern Mexico with special emphasis on indigenous cultures. Recommended background: ANTH 1302. (SOCI 3361 is the same course as ANTH 3361.)

3362 Medical Sociology (3-0)

Cultural factors in medical beliefs and practices; professionalization of medical practitioners; group factors in medical practice and medical care programs. Recommended background: SOCI 1301.

3370 Gender Roles and Society (3-0)

Sociological evaluation of the emergence and institutionalization of gender stratification and the relationship between gender roles and social status, class, and power. Gender socialization, changing roles, and consequences for society will be analyzed. Recommended background: SOCI 1301.

3381 Complex Organizations (3-0)

Examines structures, processes, interactions, and human problems of modern organizations. Classical and contemporary sociological theories of organizations are compared. Issues regarding organizational authority, change, conflict, control, cooperation, division of labor, efficiency, goals, and relationships with consumer-clients are studied. Recommended background: SOCI 1301.

4301 General Sociological Theory (3-0)

Study of the major concepts of general sociology as these have been developed by contemporary sociologists and by the founding fathers of the field. *Prerequisites:* SOCI 1301 and SOCI 3311.

4304 Environmental Justice and Minority Communities in the U.S. (3-0)

An examination of environmental justice issues in the U.S., with an emphasis on communities, agencies and efforts that address sustainable development in the U.S.-Mexico border region. The underpinnings of the environmental justice movement in the U.S. and the regional policy formulation and practice implications for these communities will be central to the course. The course may require field trips. (SOCI 4304 is the same course as AFST 4304; POLS 4304; ANTH 4304; and CHIC 4304.)

4306 Colonias on the U.S.-Mexico Border (3-0)

A study of the unincorporated population settlements in various regions along the U.S.-Mexico border. Emphasis on public policy and social service issues. The course may require field trips. (SOCI 4306 is the same as CHIC 4306 and ANTH 4306.)

4308 U.S.-Mexico Border Society and Culture (3-0)

An overview of major social and cultural features of the U.S.-Mexico border. Also includes in-depth examination of selected topics such as migration, border crossing and border restriction, global manufacturing and communities, and complex cultural formations. (SOCI 4308 is the same course as ANTH 4308).

4312 Thinking Spatially (3-0)

Provides an appreciation of geographical perspectives on space and place. Students will become familiar with geographical theory and methods, which they will apply to the analysis of important social and natural phenomena, such as health and disease, crime, environmental hazards, urbanization and development, and long-term social and environmental change. (SOCI 4312 is the same course as ANTH 4312).

4313 Advanced Spatial Analysis (3-0)

This course will be problem-based, and the centerpiece will be a semester GIS research project that each student will prepare. This will include definition of a problem amenable to spatial analysis, acquisition of appropriate data sources, organization of the data layers in a GIS, spatial analysis of the database, and a written and oral presentation of the results. In addition, a selection of advanced concepts and techniques in GIS analysis will be covered. *Prerequisite:* ANTH 3332, or SOCI 3332, or GEOG 3332 with a grade of "C" or better. (SOCI 4313 is the same course as ANTH 4313).

4346 Health and Illness in Cross-Cultural Perspective (3-0)

This course examines the cultural and social dimensions of health systems, disease, wellness, and physical and mental illness, both in traditional communities and modern settings. Healing alternatives, health beliefs, and the cultural conflicts between clients and health providers are examined. Because the course explores the culture of professional medical practice as well as the illness and healing concepts of diverse cultures, it is ideal for those pursuing the health professions in cross-cultural settings. Recommended background: ANTH 1302 or SOCI 1301. (SOCI 4346 is the same course as ANTH 4346.)

4347 Population Analysis and Problems (3-0)

Statistical analysis of the population of the world, the United States, and the Southwest. Study of fertility, mortality, and migration patterns and their social consequences. Recommended background: SOCI 1301.

4390 Independent Study (0-0-3)

Independent study in an area which is too specialized to offer as an organized class. Supervised individual reading and research leading to development of a major paper or report. *Prerequisites:* SOCI 1301, 12 hours of advanced sociology, and consent of Department Chairperson, advisor, or instructor.

See the *Graduate Catalog* for graduate programs and courses.

★ Indicates Texas Common Course Number

Text/HTML

This catalog is archived. For the current UTEP catalog, please visit catalog.utep.edu.

Theatre, Dance, and Film

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theatredancefilm@utep.edu

CHAIR: Joel Murray
PROFESSORS EMERITI: R. Milton Leech
PROFESSORS: Gladstein, Nadel
ASSOCIATE PROFESSORS: Murray, Taylor
ASSISTANT PROFESSORS: Baker, Cope, Fleming, Gorden, Skaff
LECTURERS: Barba, Dominguez, Harper, Smith

The University of Texas at El Paso's Department of Theatre, Dance, and Film is rooted in the liberal arts tradition to help prepare its students for careers in both professional and academic theatre, television, and film. The department provides thorough training in contemporary performance practices and thorough study of theatre and film history, dramatic literature, aesthetics, and theory. The department also helps students to develop conceptual, critical and argumentation skills fundamental to a liberal arts education. Instruction emphasizes cultural, social, and historical traditions that helped to create and continue to sustain dramatic theatre, television, and film. The faculty encourages a global perspective of performance through training that fosters an awareness of the intellectual, social, and political life of the contemporary world. Finally, the department seeks to visibly contribute to the quality of life in El Paso and the surrounding region by offering works of artistic merit that reflect the multicultural characteristics of its geographical location. The department also offers the Bachelor of Fine Arts (BFA) in Dance.

Major in Theatre

There are three concentrations students can choose from: Generalist, Performance, and Technical and Design. All Theatre majors must take a minimum of 120 credits to graduate 45 of which must be at the 3300-4300 level.

All students must take 42 credits to satisfy the University Core requirements and 18 credits to satisfy the Liberal Arts General education requirements. These requirements are as follows:

University Core Curriculum (42 credits total)

I. Communications and English (nine credits)

| Hours | Course | Title |
|-------|-------------------|--|
| 3 | ENGL 1311 | Expository English Composition |
| | or ESOL 1311 | Expository English Composition Speakers of ESL |
| | or ENGL/COMM 1611 | Written and Oral Communication |
| 3 | ENGL 1312 | Research and Critical Writing |
| | or ENGL 1313 | Writing and Literature |
| | or ESOL 1312 | Research and Critical Writing for Speakers of ESL |
| 3 | COMM 1301 | Public Speaking |
| | or COMM 1302 | Business and Professional Communication |
| | or COMMENGL 1611 | Written and Oral Communication (can substitute for both ENGL 1311 and COMM 1301) |

II. Mathematics (three credits)

| Hours | Course | Title |
|-------|--------------|---------------------------------|
| 3 | MATH 1319 | Mathematics in the Modern World |
| | or MATH 1320 | Mathematics for Social Sciences |

III. Natural Sciences (six credits)

6 Select a sequence of 6 hours and one of the courses must have a lab
(SEE CORE CURRICULUM SECTION IN THIS CATALOG FOR CHOICES)

IV Humanities (three credits)

Hours Course Title

3 (Select one 3 hour course)

- a. ENGL 2311 English Literature
- b. ENGL 2312 English Literature
- c. ENGL 2313 Introduction to American Fiction
- d. ENGL 2314 Introduction to American Drama
- e. ENGL 2318 Introduction to American Poetry
- f. HIST 2301 World History to 1500
- g. HIST 2302 World History since 1500
- h. PHIL 1301 Introduction to Philosophy
- i. PHIL 2306 Ethics

V. Visual and Performing Arts (three credits)

Hours Course Title

3 (Select one 3 hour course)

- a. ART 1300 Art Appreciation
- b. ARTH 1305 History of the World Art I
- c. ARTH 1306 History of the World Art II
- d. MUSL 1321 Introduction to Music History
- e. MUSL 1324 Music Appreciation
- f. THEA 1313 Introduction to Theatre
- g. FILM 1390 Introduction to the Art of the Motion Picture

VI. United States History (six credits)

- 3 HIST 1301 History of U.S. to 1865
- 3 HIST 1302 History of U.S. since 1865

VII. Political Science (six credits)

- 3 POLS 2310 Introduction to Politics
- 3 POLS 2311 American Government and Politics

VIII. Social and Behavioral Sciences (three credits)

3 (Select one 3 hour course)

- a. ANTH 1301 Introduction to Physical Anthropology and Archeology
- b. ANTH 1302 Introduction to Cultural Anthropology
- c. ECON 1301 Basic issues in Economics
- d. GEOG 1310 Cultural Geography
- e. LING/ANTH/ENGL 2320 Introduction to Linguistics
- f. PSYC 1301 Introduction to Psychology
- g. SOCI 1301 Introduction to Sociology

IX. Institutionally Designated Option (three credits)

- 3 UNIV 1301 Seminar in Critical Inquiry (students with less than 24 credits)
or UNIV 2350 *Interdisciplinary Technology and Society* (students with more ____ than 24 credits)

42 hours

Liberal Arts General Education Requirements (18 credits)

6 credits from:

- ___ ESOL 2303 (if English is a second language)
- ___ *LANG 2302 and 2304 or LING 2303 and LING 2304

* Prerequisite-completion of 1301, 1302, and 2301 or placement by examination.

12 credits (3300-4300 level only) from:

Fine and Performing Arts (*Dance, Music, Theatre, Art, and Studies-when topic is appropriate*)

- ___ Humanities (*English, History [MS 3313], Languages and Linguistics, Philosophy, Western Cultural Heritage, and Studies-when topic is appropriate*)
- ___ Social and Behavioral Sciences (*Anthropology, Communication, Criminal Justice, Political Science, Sociology, Social Work, Psychology, and Studies-when topic is appropriate*)
- ___ 1 additional course: from 1 of the above areas

* At least 3 hours from each block. Courses used for major, minor, and University Core may not be counted for this requirement.

ALL STUDENTS PURSUING THE BA DEGREE WITH A MAJOR IN THEATRE MUST TAKE THE FOLLOWING

1. THEA2110, THEA2301, THEA2303, THEA3110, THEA3322, THEA3325, THEA3341, THEA3351, THEA3352 and THEA4110.

GENERALIST CONCENTRATION STUDENTS ARE REQUIRED TO TAKE:

1. THEA2304, THEA2314, THEA3306, THEA3342 or THEA3344, and THEA1303 or THEA3320 or THEA4300.

FOUR YEAR DEGREE RECOMMENDED COMPLETION SCHEDULE FOR GENERALIST CONCENTRATION

Semester One

5 courses-15 credit hours

ENGL 1311 or 1611 or ESOL 1311
UNIV 1301
MATH 1319 or 1320 or 1508
HIST 1301
THEA2301

Semester Two

5 courses- 15 credit hours

ENGL 1312 or 1313 or ESOL 1312
University Core Humanities
COMM1301 or 1302
HIST 1302
THEA2303

Semester Three

5 courses-15 credit hours

University Core Natural Science
POLS 2310
University Core Soc/Behav Science
LAGE Arts 3300+
THEA2304

Semester Four

6 courses-16 credit hours

University Core Natural Science
POLS 2311
LANG 2302 or
LING 2303
LAGE Humanities 3300+
THEA2110
University Core Visual and Perf. Arts

Semester Five

5 courses-15 credit hours

LANG 2304 or
LING 2304
THEA3306
THEA3322
THEA3341
Minor Area Course#1

Semester Six

6 courses-16 credit hours

LAGE Soc/Behav 3300+
THEA3351
THEA2314
THEA3342 or 3344, 1303 or 3320
THEA3110
Minor Area Course #2

Semester Seven

5 courses-15 credit hours

THEA3352
THEA3325
Minor Area Course #3
Minor Area Course #4
Theatre Directed Study

Semester Eight

5 courses-13 credit hours

LAGE Choice 3300+
THEA3313 or 4300 or 4318, or 4340
THEA4110
Minor Area Course #5
Minor Area Course #6

PERFORMANCE CONCENTRATION STUDENTS ARE REQUIRED TO TAKE:

1. THEA4300, THEA3344, THEA3342, THEA3346, THEA4310

1. THEA 1303, THEA2314, THEA3313, THEA3310, THEA4313.

2. One course from: THEA3314, THEA4300, THEA4340 (when offered as Stage Dialects, Acting Genres, or Directing Genres).

FOUR YEAR DEGREE RECOMMENDED COMPLETION SCHEDULE FOR PERFORMANCE CONCENTRATION

Semester One

5 courses-15 credit hours

ENGL 1311 or 1611or ESOL 1311

UNIV 1301

MATH 1319 or 1320 or 1508

HIST 1301

THEA2303

Semester Two

5 courses- 15 credit hours

ENGL 1312 or 1313 or ESOL 1312

University Core Humanities

COMM1301 or 1302

HIST 1302

THEA2301

Semester Three

6 courses-16 credit hours

University Core Natural Science

POLS 2310

University Core Soc/Behav Science

University Core Visual and Perf. Arts

THEA3322

THEA2110

Semester Four

5 courses-15 credit hours

University Core Natural Science

POLS 2311

LANG 2302 or

LING 2303

THEA 1303

THEA2314

Semester Five

5 courses-15 credit hours

LANG 2304 or

LING 2304

LAGE Humanities 3300+

THEA3313

THEA3325

Minor Area Course #1

Semester Six

6 courses-16 credit hours

LAGE Soc/Behav 3300+

LAGE Arts 3300+

THEA 3351

THEA3341

THEA3110

Minor Area Course #2

Semester Seven

5 courses-15 credit hours

THEA3352

THEA4313

THEA3316

Minor Area Course#3

Minor Area Course #4

Semester Eight

5 courses-13 credit hours

LAGE Choice 3300+

THEA4110

Theatre Directed Study (THEA3314 or

4300, or 4340 or 3320

Minor Area Course #5

Minor Area Course #6

TECHNICAL/DESIGN CONCENTRATION STUDENTS ARE REQUIRED TO TAKE:

1. THEA2304, THEA3306, THEA3342, THEA3344, and THEA4340 (when offered as Advanced Scene, Lighting, or Costume Design).

2. One course from the following: THEA3343, THEA4300, THEA4332, THEA4340 (when offered as Advanced Lighting or Costume Design).

FOUR YEAR DEGREE RECOMMENDED COMPLETION SCHEDULE FOR TECHNICAL/DESIGN CONCENTRATION

Semester One

5 courses-15 credit hours

ENGL 1311 or 1611or ESOL 1311

UNIV 1301

MATH 1319 or 1320 or 1508

Semester Two

5 courses-15 credit hours

ENGL 1312 or 1313 or ESOL 1312

University Core Humanities

COMM1301 or 1302

HIST 1301
THEA2301

HIST 1302
THEA2304

Semester Three

6 courses-16 credit hours

University Core Natural Science
POLS 2310
University Core Soc/Behav Science
University Core Visual and Perf Arts
THEA3322
THEA2110

Semester Four

5 courses-15 credit hours

University Core Natural Science
POLS 2311
LANG 2303 or
LING 2303
THEA2303
THEA3341

Semester Five

5 courses-15 credit hours

LANG 2304 or
LING 2304
LAGE Humanities 3300+
THEA3306
THEA3342
Minor Area Course #1

Semester Six

6 courses-16 credit hours

LAGE Soc/Behav 3300+
LAGE Arts 3300+
THEA 3351
THEA3110
THEA3344
Minor Area Course #2

Semester Seven

5 courses-15 credit hours

THEA3352
THEA3325
THEA4332 or 4340
Minor Area Course #3
Minor Area Course #4

Semester Eight

5 courses-13 credit hours

LAGE Choice 3300+
Theatre Directed Study
THEA4110
Minor Area Course #5
Minor Area Course #6

BFA in Music Theatre with a Theatre Concentration

Students should refer to the Liberal Arts Interdisciplinary Program section for degree requirements.

Minors in Theatre

Prospective Minors in Theatre Arts have three concentration options: Generalist, Performance, and Technical/Design.

Generalist Minor

The generalist minor requires 18 semester hours, 9 of which must be at the 3300-4300 level: THEA 1313, THEA2301 or THEA2306, THEA2303, THEA3325. Two courses from: THEA3342, THEA3341, THEA3204, THEA4300, THEA4304, THEA3343, THEA3351, THEA4318, THEA3352, THEA3306

Performance Minor

The performance minor requires 18 semester hours, 9 of which must be at the (3300-4300) level: THEA 1313; THEA2303, or THEA2314, THEA3325. Two courses from: THEA3313, THEA3314, THEA3351, THEA4304, THEA4313, THEA4318, THEA3352, THEA3316, THEA4340, THEA3204.

Technical and Design Minor

The technical and design minor requires 18 semester hours, 9 of which must be at the 3300-4300 level: THEA 1313, THEA2301 or THEA2306, THEA2304, THEA3306. Two courses from: THEA3342, THEA3341, THEA3204, THEA4332, THEA4330, THEA4304, THEA3343, THEA3351, THEA4318, THEA3352, THEA3325.

Minor in Screenwriting (Interdepartmental)

Eighteen hours of course work, twelve hours of which are required and six of which are from a menu of options, from the Departments of Communication, English, and Theatre, Dance and Film to train students in the art of writing for the cinema. Coursework culminates in the production of a short screenplay.

Required Courses

ENGL 3361 Introduction to Creative Writing
ENGL 3369 Television and Screenplay Writing

- FILM 3315 Screenwriting or
- FILM 4340 Selected Topics (when taught as Screenwriting II) or
- COMM 4350 Selected Topics (when taught as From Script to Screen)

Menu Options

Three courses from the following:

- THEA 4318 Playwriting II
- FILM 4340 Selected Topics (when taught as Structural Analysis of Scripts)
- ENGL 3367 Fiction Techniques
- ENGL 3302 Literature and Film
- ENGL 4340 Advanced Literary Studies (when taught as Screenplays as Literature)
- THEA 3325 Directing I

As a prerequisite to the program, students must take FILM1390, Introduction to the Art of the Motion Picture, either as fulfillment of the Visual and Performing Arts Block of the Core Curriculum or as an elective. It is also recommended that students fulfill the Humanities Block of the Core Curriculum with ENGL 2314, Introduction to American Drama.

Whole Arts (ARTS)

3320 Whole Arts (2-2)

An interarts experience that addresses Texas State requirements in the arts for classroom teachers EC-4. The course explores major themes from the visual and performing arts and uncovers arts tools, methods and resources for teaching and learning. The themes are presented in lectures, activities and interviews. Creative laboratory sections are held on and off campus.

Theatre (THEA)

1303 Vocal Production/Articulation and Movement (3-0)

(👉 DRAM 2336)

A course designed to develop the actor's instrument, including preparing the actor to produce healthy, well-placed and well-supported vocal sound in a variety of playing spaces, as well as preparing the actor to articulate clearly, using standard English diction and phrasing. The course introduces the concept of the actor's total instrument meaning the body and the voice working together in-stage to portray a character. Therefore, all work includes movement training, with special attention to stimulus-response and the playing active physical objectives.

1313 Introduction to Theatre (3-0)

(👉 DRAM 1310)

Analysis of the principles and techniques involved in representing human experience in a play; the relationship of acting, directing, staging, lighting, costuming, and other Theatre Arts to one another and to the written word. The course is designed to serve not only as an introduction to drama for departmental majors, but as a general survey for non-majors. Course fee required.

2110 Theatre Practicum I (0-3)

(👉 DRAM 1321)

The first of a three course sequence in which students work on main stage and studio productions in performance or technical capacities. *Prerequisites:* THEA2301 and THEA2303 each with a grade of "C" or better.

2301 Scenic and Lighting Principles (3-0)

(👉 DRAM 1330)

A survey of scenic and lighting practices and procedures used in modern theatre production. The class will serve as an introduction to the theatre architecture, stage rigging, scenic construction, painting, hardware, shop tools, safety and electrical theory and application. Course fee required.

2303 Acting I (2-3)

(👉 DRAM 1351)

The fundamentals of role preparation and performance. Students will learn basic critical concepts and techniques and will practice them in exercises and in performance of monologues and scenes taken from modern and contemporary dramatic literature.

2304 Theatre Graphics and Technology (3-0)

An introduction to design where the student will learn the process and technology used to create drafting, plans, and other documents used in practical production applications, including CAD and other industry software. *Prerequisite:* THEA2301 with a grade of "C" or better. Course fee required.

2314 Acting II (2-3)

Detailed study of role preparation and role execution. Combines exercises and scene study to deepen the understanding and playing of action. Scenes are primarily selected from modern and contemporary dramatic literature. *Prerequisite:* THEA2303 with a grade of "C" or better.

2305 Script Analysis (3-0)

The study of the structure of playscripts from classicism to post-modernism. Students are provided basic analytical tools necessary to comprehend the literary texts of plays and the application of those texts to the various areas of production.

2306 Principles of Costuming (2-1)

The study of costume technology including design analysis, pattern development, fabric selection and modification, and construction techniques. Offers experience executing costumes for theatrical production. Course fee required.

2322 Makeup (3-0)

( **DRAM 1341**)

Study of the history of makeup, types and kinds of makeup, and techniques of application for stage, film, and television. Course includes practical applications of techniques learned. Course fee required.

3110 Theatre Practicum II (0-3)

The second of a three course sequence in which students work on main stage and studio productions in performance or technical capacities. *Prerequisites:* THEA2110, THEA2301 and THEA2303 each with a grade of "C" or better.

3301 Theatre Practicum for Non-Majors (0-3)

An introduction to the technical theatre for non-majors. Students will participate in working on main stage and studio productions in scenic, lighting, sound, and costuming practices.

3306 Scene Design (3-0)

Study of the theory, process, and practice for scene design in the dramatic theatre, opera, and dance. Students will learn to practice rendering techniques and model building, and will design specific class projects. *Prerequisites:* THEA2301, THEA2304, THEA2306 each with a grade of "C" or better or instructor approval.

3311 Music Theatre Company I (2-3)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit.

3313 Acting III (2-3)

Advanced script and character work with special attention paid to the integration of vocal and physical skills as they directly relate to the demands of the script. This is a scene study class with scenes selected from the range of world dramatic literature. *Prerequisite:* THEA2314 with a grade of "B" or better.

3314 Acting for the Camera (2-3)

Fundamental principles and techniques of acting for the camera integrated with basic and advanced acting techniques. Students will work on camera and review their work during playback sessions. Performance situations will duplicate those found in commercials, television, and film. *Prerequisites:* THEA2313 with a grade of "B" or better and department approval.

3316 Audition Techniques (2-3)

Basic principles and techniques of auditioning for stage, television, film, and commercials. Students will learn about and practice within the various audition situations. Covers everything from headshots and resumes to the business of acting. Special attention is given to the application of detailed acting principals and techniques for auditioning. *Prerequisites:* THEA2313 with a grade of "B" or better.

3318 Play Script Development (2-3)

Guided preparation of new script development, with special attention given to collaboration between playwrights, directors, and actors. In a workshop environment, students will experience the process of developing a script from its infancy all the way through performance. *Prerequisite:* Department approval.

3320 Playwriting I (3-0)

Introduction to Playwriting addresses rudiments of dramatic forms, structure, and styles, as a foundation for general theatre study. Students will engage in writing exercises, write scenes, and a short script intended for minimal production.

3322 Script Analysis (3-0)

The study of the structure of playscripts from classicism to post-modernism. Students are provided basic analytical tools necessary to comprehend the literary texts of plays and the application of those texts to the various areas of production.

3325 Directing I (2-3)

The basic principles and strategies of bringing a playscript to life. Special emphasis is on learning to think as a director in order to develop the techniques which suit specific situations in the process of directing, including the director-designer and director-actor communication. Students will put principles and strategies into practice via exercises and by directing scenes and a short play. *Prerequisite:* THEA2303 with a grade of "C" or better or instructor approval.

3335 Hispanic Theatre and Drama (2-3)

Examination of the Hispanic-American experience through the works of contemporary American playwrights. Plays and performances are studied as literature, as political statement, and as social and ethnic phenomenon.

3340 A History of Costume Design (3-0)

A study of costume design from the earliest times to the present and its implementation on the stage. Practical experience in designing and executing costumes for actual production.

3341 Costume Production (3-0)

The study of costume technology and construction through basic sewing skills, patterning techniques, fabric selection. One basic personal garment will be constructed by each student. Experience in working on production costumes will be gained through lab hours. Course fee required.

3342 Lighting Design (3-0)

A history of lighting and an analysis of contemporary lighting practice as applied to Theatre and television lighting including a study of lighting instruments, use of color media, control equipment, and designing for different staging and studio configurations. Course fee required.

3343 Scenic Painting (2-3)

Discussion of the formulation and handling of scene paints and dyes, brushes and tools, and painting techniques. Practical laboratory work in problems of the realistic representation of a variety of textures and materials at scenic scale leads to fully developed illusionistic and pictorial stage scenery. *Prerequisite:* Department approval.

3344 Costume Design (2-3)

This course introduces the student to interpreting theatrical works, and transforming concepts into visual aesthetics for costume design. *Prerequisite:* THEA2306 or THEA3341 each with a grade of "C" or better or approval of the professor.

3350 Creative Drama (3-0)

Methods of developing original dramatizations with children and creating plays from children's literature. Discussion of basic skills for the teaching of creative theatre and drama. Recommended for Education majors.

3351 Theatre History and Literature I (3-0)

Historical survey of theatre and drama from its origins through the close of the Renaissance.

3352 Theatre History and Literature II (3-0)

Historical survey of theatre and drama from the Restoration to the present.

3355 Musical Theatre History (3-0)

A survey of the American Musical Theatre as it evolved from the mid-nineteenth century to the present. With the use of film-videos, recorded material, and slides. This course will explore the historical and aesthetic contributions of the genre to the American Theatre.

3356 Women in Drama (3-0)

This course will investigate the writings of feminist playwrights who are committed to the development and vision of women in the theatre. These dramatic works will be examined in light of the sociological and humanistic realities that are a part of contemporary American life.

4110 Theatre Practicum III (0-3)

The third of a three course sequence in which students work on main stage and studio productions in performance or technical capacities. Seniors in performance and technical tracks are required to fulfill a research component in addition to the practical component. *Prerequisite:* THEA3110 with a grade of "C" or better.

4300 Directing II (2-3)

A continuation of principles addressed in Directing I but applied specifically to non-realistic genres of theatre. Students will practically apply theories discussed to non-realistic genres of theatre. Students will practically apply theories discussed to non-realistic one-act plays. Special emphasis will be placed on the collaborative relationship between Directors and Designer as well as between Directors and Actors. Student directors will hold mock concept presentations and conduct rehearsals for one-act plays culminating in a workshop presentation of a scene from their assigned script. *Prerequisite:* THEA3325 with a grade of "C" or better.

4304 Theatre Practicum from Non-Majors III (0-9)

An introduction to the technical theatre for non-theatre majors. Students will participate in working on main stage and studio productions in scenic, lighting, sound, and costuming capacities.

4311 Music Theatre Company II (0-9)

Faculty directed study, practice and performance of music theatre repertory in scenes and full productions. Workshops and seminars that develop specialized performance skills and business acumen in Musical Theatre will be provided. May be repeated for credit. *Prerequisite:* THEA3311 with a grade of "C" or better.

4313 Acting IV (2-3)

Emphasis on classical dramatic literature with special attention given to the problems of language and the advanced techniques necessary for the integration of voice and movement. Students will perform scenes and monologues, as well as participate in a variety of exercises. *Prerequisite:* THEA 3313 with a grade of "B" or better.

4318 Playwriting II (3-0)

Advanced work on one-act and full length playscripts. Detailed attention will be given to in-class readings and critiques. Scripts developed in class will be given staged readings or workshop productions.

4332 Advanced Scene Design (2-3)

Basic techniques are incorporated into a comprehensive approach to scene design with the emphasis on aesthetics. Script analysis in visual terms, visual research methods, style in the theatre, and the development of a design concept, are studied through projects in contrasting styles of stage designs. *Prerequisites:* THEA 3342, junior standing and department approval.

4340 Selected Topics in Drama and Theatre (3-0)

Special research and production projects—individual or group—under the supervision of a faculty member. *Prerequisite:* Instructor approval.

See the *Graduate Catalog* for graduate programs and courses.

Bachelor of Fine Arts in Dance

The BFA in Dance provides an education through dance: studio, stage to careers. It builds upon the technical strengths of ballet, contemporary dance and a core of academic subjects, along with Dance Appreciation, Music Theatre Dance including jazz and tap, World Dance, Dance History, Composition and Choreography, Music, Kinesiology or Somatics, and Movement Analysis. Students may choose either an option in performance or teaching with a certification.

All dance majors take the following University Core and dance fundamentals:

| | | | |
|------|------|--------------------------------|-----------|
| ENGL | 1311 | English Composition | 3 |
| ENGL | 1312 | Research and Critical Writing | 3 |
| COMM | 1301 | Public Speaking | 3 |
| MATH | 1320 | Math for the Social Sciences | 3 |
| BIOL | 1303 | Introductory Biology | 3 |
| BIOL | 1304 | Human Biology | 3 |
| BIOL | 1104 | Human Biology Laboratory | 1 |
| HIST | 2302 | World History since 1500 | 3 |
| MUSL | 1324 | Music Appreciation | 3 |
| HIST | 1301 | US History to 1865 | 3 |
| HIST | 1302 | US History since 1865 | 3 |
| POLS | 2310 | Intro to Politics | 3 |
| POLS | 2311 | American Government & Politics | 3 |
| PSYC | 1301 | Introduction to Psychology | 3 |
| UNIV | 1301 | Seminar in Critical Inquiry | 3 |
| | | | 43 |

All dance majors take the following dance fundamentals:

| | | | |
|------|------|--------------------------------|---|
| DANC | 1304 | Dance Appreciation | 3 |
| DANC | 1151 | Dance Performance | 4 |
| DANC | 1341 | Ballet I | 3 |
| DANC | 1342 | Ballet II | 3 |
| DANC | 2341 | Ballet III | 3 |
| DANC | 2342 | Ballet IV | 3 |
| DANC | 3303 | History of Theatrical Dance I | 3 |
| DANC | 3304 | History of Theatrical Dance II | 3 |
| DANC | 3151 | Dance Performance | 2 |
| DANC | 3301 | Dance Theory and Composition | 3 |
| DANC | 2345 | Contemporary Dance 1 | 3 |
| DANC | 2346 | Contemporary Dance 2 | 3 |
| DANC | 3345 | Contemporary Dance 3 | 3 |
| DANC | 3346 | Contemporary Dance 4 | 3 |
| DANC | 3371 | Dance for the Music Theatre 3 | 3 |
| DANC | 4374 | Dance for the Music Theatre 4 | 3 |

| | | | |
|------|------|-------------------------------|-----------|
| DANC | 4371 | Dance for the MUSIC Theatre 4 | 3 |
| DANC | 4301 | Choreography | 3 |
| DANC | 4390 | Seminar (Capstone) | 3 |
| MUST | 1311 | Fundamentals of Music | 3 |
| THEA | 2321 | Stagecraft | 3 |
| KIN | 2332 | Motor Learning and Control or | |
| DANC | 3363 | Somatics | <u>3</u> |
| | | | 63 |

Dance Performance Option

| | | | |
|------|------|---------------------------------|--------------|
| DANC | 3341 | Ballet V | 3 |
| DANC | 3342 | Ballet VI | 3 |
| DANC | 4341 | Ballet VII or | 3 |
| DANC | 4345 | Contemporary Dance V | 3 |
| DANC | 4342 | Ballet VIII or | 3 |
| DANC | 4346 | Contemporary Dance VI | 3 |
| DANC | 3151 | Dance Performance | 2 |
| KIN | 2342 | Spanish Dance (2) or | |
| DANC | 3322 | World Dance (3) | 2-3 |
| DANC | 3361 | Move Analysis & Preservation or | |
| DANC | 4394 | Dance Pedagogy | 3 |
| THEA | 2413 | Acting I | 3 |
| MUSA | 1155 | Chorus | 2 |
| MUSA | 1271 | Piano Class | <u>2</u> |
| | | | 26-27 |

Dance Teacher Certification Option

| | | | |
|------|------|--------------------------------------|--------------|
| KIN | 2342 | Spanish Dance | 2 |
| DANC | 3222 | World Dance | 3 |
| DANC | 3361 | Movement Analysis and Preservation | 3 |
| DANC | 4394 | Dance Pedagogy | 3 |
| EDPC | 3300 | Developmental Variations | 3 |
| SCED | 3311 | Curriculum Planning- Second. Schools | 3 |
| SCED | 3317 | Multi-Cultural Education | 3 |
| RED | 3342 | Reading/Study in Content | 3 |
| SCED | 4393 | Intern. Secondary Education I | 3 |
| SCED | 4394 | Intern. Secondary Education II | 3 |
| EDT | 3371 | Educational Technology | <u>0-3</u> |
| | | | 30-33 |

Minor in Dance

Students entering a dance minor program must demonstrate technical competence in ballet, modern dance, or jazz beyond the elementary level. All students must take a minimum of 18 credit hours including 9 upper-division credits.

The following courses are required of all students:

| | | | |
|------|------|--------------------------------|---|
| DANC | 1304 | Dance Appreciation | 3 |
| DANC | 3303 | History of Theatrical Dance I | 3 |
| DANC | 3304 | History of Theatrical Dance II | 3 |

Students should design a coherent program of 9 additional dance credits with the approval of a dance minor advisor from the following courses to include a variety of techniques that complement a student's major field.

| | | | |
|------|------|------------|---|
| DANC | 1341 | Ballet I | 3 |
| DANC | 1342 | Ballet II | 3 |
| DANC | 2341 | Ballet III | 3 |
| DANC | 2342 | Ballet IV | 3 |
| DANC | 3341 | Ballet V | 3 |
| DANC | 3342 | Ballet VI | 3 |

| | | | |
|------|------|---------------------------------|---|
| DANC | 4341 | Ballet VI | 3 |
| DANC | 4342 | Ballet VIII | 3 |
| DANC | 1151 | Dance Performance | 1 |
| DANC | 3151 | Dance Performance | 1 |
| DANC | 2345 | Contemporary Dance 1 | 3 |
| DANC | 2346 | Contemporary Dance 2 | 3 |
| DANC | 3345 | Contemporary Dance 3 | 3 |
| DANC | 3346 | Contemporary Dance 4 | 3 |
| DANC | 4345 | Contemporary Dance 5 | 3 |
| DANC | 4346 | Contemporary Dance 6 | 3 |
| DANC | 3347 | Character and Jazz Dance I | 3 |
| DANC | 3348 | Character and Jazz Dance II | 3 |
| DANC | 1371 | Dance for the Music Theatre I | 3 |
| DANC | 2371 | Dance for the Music Theatre II | 3 |
| DANC | 3371 | Dance for the Music Theatre III | 3 |
| DANC | 4371 | Dance for the Music Theatre IV | 3 |
| DANC | 3301 | Dance Theory and Composition | 3 |
| DANC | 4301 | Choreography | 3 |
| DANC | 1140 | Ballet Folklorico | 1 |
| PE | 1146 | Hispanic Dance | 1 |
| DANC | 3322 | World Dance | 3 |

Education majors, in order to apply for an additional field of certification in dance, must also take:

| | | | |
|------|------|----------------------------|---|
| DANC | 4394 | Dance Pedagogy | 3 |
| DANC | 3363 | Somatics or | |
| KIN | 2332 | Motor Learning and Control | 3 |

Dance (DANC)

1151 Dance Performance (0-0-10)

(*) DANC 1151)

Performing techniques and participation in the University Ballet Corps. Ballet majors are required to participate for eight semesters and/or each semester in attendance. May be repeated for credit. Open to all through audition.

1341 Ballet I (0-0-5)

(*) DANC 1341)

Basic ballet techniques combining the methods of the Russian, Cecchetti, and French schools. Sections open to all students, meets three days a week. Sections open to Ballet majors, meets five days a week.

1304 Dance Appreciation (3-0)

(*) DANC 2303)

The forms, history, choreography, criticism, notation, meanings and major issues in dance such as the roles of dance in the visual and performing arts and world dance are surveyed. Course work is supported through performance and documentary videos as well as attendance at ballet, contemporary and folk dance concerts.

1342 Ballet II (0-0-3)

(*) DANC 1342)

Basic ballet techniques combining the methods of the Russian, Cecchetti and French Schools. Sections open to all students, meets three days a week. Sections open to ballet majors, five days a week.

1371 Dance for the Music Theatre I (3-1)

The first semester of a four-semester sequence designed to give the student actor and singer the tools to move efficiently and evoke excitement in a variety of stage roles and situations. Fundamentals of mind body coordination and non-verbal communication are stressed. Techniques of improvisation and dance are introduced.

2341 Ballet III (5-0)

(*) DANC 2341)

Continuation of 1342 with more advanced work in the creative aspects of dance movements. *Prerequisite:* DANC 1342.

2342 Ballet IV (5-0)

(👁️ DANC 2342)

Continuation of 1342 with more advanced work in creative aspects of dance movements. *Prerequisite:* DANC 1342 or department approval.

2345 Contemporary Dance I (2-2)

(👁️ DANC 1345)

The movement vocabulary of Martha Graham, Jose Limon, Kathryn Dunham, Merce Cunningham and other great dance artists of the last century are synthesized in an intermediate level technique class.

2346 Contemporary Dance II (2-2)

(👁️ DANC 1346)

A continuation of Contemporary Dance I. *Prerequisite:* DANC 2345 with a grade of "C" or better.

2371 Dance for the Music Theatre II (3-1)

Additional tools and enhanced movement skills for student actors and singers. Forms, patterns, and individual creativity are stressed. *Prerequisite:* DANC 1371.

3151 Dance Performance (0-6)

Upper-level stage experiences in ballet, modern dance or music theatre dance.

3301 Dance Theory and Composition (3-0)

Concepts such as repetition, manipulation, development, contrast, variety and musicality are presented through lecture, discussion, improvisation and representation through the composition of formal dance studies. Intermediate level technical proficiency recommended.

3303 History of Theatrical Dance I (3-0)

A survey of the evolution of theatrical dance from the Renaissance to the present with emphasis upon the evolution of ballet theatre. Relevant social, political and artistic movements are considered along with choreographic styles and traditions and the philosophies and contributions of major dance artists.

3304 History of Theatrical Dance II (3-0)

A survey of theatrical dance emphasizing major developments in 20th Century concert dance and dance for the musical stage. Relevant social, political and artistic movements are considered along with choreographic styles and traditions and the philosophies and contributions of major dance artists.

3322 World Dance (3-0)

The ethnic, recreational and theatrical dance of a variety of world cultures is studied, compared and sampled. The rich folkloric heritage and diverse cultures of the El Paso area provide a living laboratory for observation, participation and research.

3341 Ballet V (0-0-5)

Continuation of 2342; advanced techniques with increased emphasis on certain creative aspects of dance movements. *Prerequisite:* Department approval.

3342 Ballet VI (5-0)

Continuation of 2342; advanced techniques with increased emphasis on certain creative aspects of dance movements. *Prerequisites:* DANC 2342 or equivalent, junior standing, and department approval.

3345 Contemporary Dance III (3-0)

A continuation of Contemporary Dance II with emphasis on the multitude of styles called "The Modern Dance".

3346 Contemporary Dance IV (3-0)

A continuation of Contemporary Dance III with emphasis on today's professional-level performance demands.

3347 Character and Jazz Dance I (3-0)

Interpretation of national dancing; fundamentals and techniques of jazz dance. May be repeated for credit.

3348 Character and Jazz Dance II (3-0)

Interpretation of national dancing; fundamentals and techniques of jazz dance. May be repeated for credit.

3361 Movement Analysis and Preservation (3-0)

The analysis, coding and decoding of spatial, rhythmic and dynamic aspects of human movement through systems such as Labanotation. Attention to computer-assisted recording and reconstruction along with applications for teaching and choreography is included. Advanced technical level recommended. *Prerequisites:* DANC 1342 and DANC 2346 each with a grade of "C" or better.

3363 Somatics (2-2)

A study of somatic systems and practices that help create efficient, responsive, movement based on heightened sensory awareness. The course is appropriate for the performing artist as well as skilled movers from other fields, including athletics. Learning is accomplished in a combined lecture/studio borrowing approaches from Ideokinetics, Alexander, Feldenkrais, Bartenieff, etc.

3371 Dance for the Music Theatre III (3-1)

Introduction to and practice in more advanced movement tools; deepened and expanded dance techniques. Nineteenth and Twentieth Century Period dance styles are stressed.

4301 Choreography (3-0)

Principles of composition, rehearsal, and execution of theatrical dance. *Prerequisite:* DANC 3342.

4333 Teaching Dance in High School (2-2)

Materials and methods for the activity classroom, the teaching of dance appreciation, the relationship of movement to learning in other academic settings, the presentation of student concerts, musicals, folkloric and related dance activities in relation to adolescent growth and development. *Prerequisite:* DANC 4394 with a grade of "C" or better.

4341 Ballet VII (0-0-10)

For students wishing to study ballet as a principal performance medium. Concentrated study including points and adagio work. Admission is by audition only. *Prerequisite:* DANC 3342.

4342 Ballet VIII (4.50-0)

For students wishing to study ballet as a principal performance medium. Concentrated study including points and adagio work. Admission is by audition only. *Prerequisite:* DANC 3342.

4345 Contemporary Dance V (3-0)

Continued study of contemporary dance techniques and styles at the advanced level. This course follows Contemporary Dance IV. *Prerequisite:* Dance 3346 or equivalent with a grade of "C" or better. Course fee required.

4346 Contemporary Dance VI (3-0)

A continuation of study in Contemporary Dance techniques at the advanced level. *Prerequisite:* DANC 4345 or equivalent with a grade of "C" or better. Course fee required.

4371 Dance for the Music Theatre IV (3-1)

Refinement of dance and movement techniques. Movement workshop units in areas such as Baroque and Renaissance dance styles, tap and folk dance, mime, pantomime, Feldenkrais, Alexander, Tai Chi, improvisation, stage combat, tumbling, and voice and movement. Take advantage of community and other professional resources to broaden performers' exposure to stage movement techniques. May be repeated for credit. *Prerequisite:* DANC 3371.

4390 Seminar (3-0)

Capstone assignments and presentations demanding research and performance or choreography. Current trends and careers in dance and the arts are highlighted.

4394 Dance Pedagogy (2-2)

Materials and methods for teaching dance in a variety of public and private studio situations. Observation and internship included. *Prerequisites:* DANC 3203 or DANC 3204, and DANC 4301 each with a grade of "C" or better. DANC 3203, or 3204, and 4301 may be taken concurrently with DANC 4394.

Minor in Film Studies

The minor requires 18 semester hours of film courses, 12 of which must be advanced (3300-4300) level, including:

1. Required courses: THEA 1390, THEA 3390, and THEA 4390
2. Elective courses: THEA 2391, THEA 2396, THEA 3302, THEA 3303, THEA 3391, THEA 3393, THEA 3394, THEA 3395, SPAN 5303, ENGL 3302, PHIL 3325

Film (FLM)

1390 Introduction to the Art of the Motion Picture (3-0)

(*) **DRAM 2366**

Understanding and appreciating film as a unique medium for communication and artistic expression. Introduces students to basic theory across a broad range of types of films. Films viewed in class and on campus and discussed in class. Course fee required.

2391 Cinematic Genres (3-0)

This course will be centered around the evolution of distinct cinematic styles and themes which have evolved within narrative film and the subsequent impact genre has had on contemporary film practice. Course topic will vary. *Prerequisite:* FILM 1390. FILM 1390 may be taken concurrently with FILM2391. Course fee required.

2396 Video as Personal Expression (2-2)

Conceptualizing and production of a series of short individual and group projects in video. Under the guidance of the instructor, the student will be exposed to key practitioners in the field and will engage in intensive viewing and feedback sessions with the instructor and classmates. *Theatre Arts majors only. Prerequisites:* Film 1390 and department approval. Course fee required.

3302 Chicano Cinema (3-0)

An examination of the American film industry with respect to the Chicano's role, historically and culturally, in the genre. A series of films, including Hollywood commercial and Chicano made films, will be screened, as part of an analysis of Chicano images and their impact on American popular culture. This is an interdisciplinary course that employs analytical constructs and techniques used in cultural anthropology, sociology, film criticism, and history. Course fee is required.

3303 The Border Image in Mexican Film (3-0)

Analysis of the U.S.-Mexico Border image in Mexican cinema, to include the salient demographic, cultural, linguistic, and political characteristics of the region. Course will be taught in Spanish. Course Fee required.

3315 Screenwriting (3-0)

A workshop where students will be introduced to the tools and discipline necessary to write tightly structured, dramatic scenes in order to tell stories through moving images, dramatic action, characterization, and dialogue. Each student will also write two short screenplays intended for minimal production. Emulation of the broadest possible spectrum of film styles and approaches is encouraged.

3390 Cinematic Directors (3-0)

An examination of the stylistic cinematic works of modern and contemporary European and American film directors and their aesthetic relationship to their political, religious, socio-cultural, and commercial environment. *Prerequisite:* FILM 1390 with a grade of "C" or better or instructor approval. Course fee required.

3391 African-American Filmmakers (3-0)

The unique contributions to independent and studio film production by African-Americans will be the focus of this course. By incorporating a historical perspective of the roles of African-Americans in movies and behind the camera, the course will offer students an opportunity through reading and writing assignments to increase their awareness of the sociological, political, and artistic associations between the film industry and American society. Course fee required.

3393 American Avant-Garde Film (3-0)

The development and significance of the experimental, or avant-garde film, that evolved in direct opposition to the hegemony of the commercial narrative film, will be studied. Through the viewing, study, and critical discussion of the works of such artists as Stan Brakhage, Andy Warhol, Jonas Mekas, Maya Deren, and many others, students will gain an awareness of and appreciation for America's alternative cinema. *Prerequisite:* FILM 1390 with a grade of "C" or better or instructor approval.

3394 Documentary Cinema (3-0)

This course will concentrate on an examination of the aesthetics, history, cultural context, social significance, and critical methodologies of the documentary film. Study will begin with the earlier examples of this form, including the pioneering works of such documentarians as Robert Flaherty and Leni Riefenstahl, and continue through the most recent extensions of this form as exemplified in the work of the Maysles Brothers and Frederick Wiseman. Students will investigate the ideological and formal principals of the non-fiction narrative film. *Prerequisite:* FILM 1390 with a grade of "C" or better or instructor approval. Course fee required.

3395 Women and Film (3-0)

The significant participation of women in front of and behind the camera will be studied in this course. Emphasis will be placed on the historical contributions of women writers, producers, and directors and the recent increase in the number of women actively involved in the production of feature films. Attention will also be given to screen images of women and how they reflect American culture. *Prerequisite:* FILM 1390 with a grade of "C" or better or instructor approval.

4340 Selected Topics in Film Studies (3-0)

Special research and production projects-individual or group-under the supervision of a faculty member. *Prerequisite:* Instructor approval.

4390 Film Theory and Criticism (3-0)

To identify the philosophical ideas and theoretical approaches that have influenced filmmakers and film scholars and to study the writings of some of the best exponents of film criticism in its popular and scholarly forms. *Prerequisite:* FILM 1390 with a grade of "C" or better or instructor approval. Course fee required.

📍 Indicates Texas Common Course Number

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Women's Studies

233 Liberal Arts
(915) 747-5200
womenstudies@utep.edu
www.utep.edu/womens/

DIRECTOR: Martha Smithey
PROFESSORS: Gladstein, Hatchett, Martin, McGee Deutsch, Staudt
ASSOCIATE PROFESSORS: Byrd, Howard, Marchino, Rippberger, Smithey, Topp
ASSISTANT PROFESSORS: Abarca, Cohoon, Garabano, Haines, Hatchett, Henderson, Leyva, Simon, Soward, Wiebe
LECTURERS: Baker, Hibbert, Risch

Women and men are invited to participate in this interdisciplinary program that studies women, gender relations, and sexuality. The program offers both: 1) interdisciplinary courses studying a range of issues that cross disciplines and 2) courses which deal with the impact of gender within individual disciplines, such as History, Political Science, and Sociology, to name a few. While the Women's Studies Program was created in 1981, UTEP has offered individual courses in Women's Studies since the early 1970's. The program's primary goal is to foster gender equality in scholarship, the workplace, and in society as a whole.

Women's Studies courses offer students a rigorous education in theories of women's oppression, diverse gender roles and sexual identities, the history of gender relations, contemporary economic and social policies affecting women and men, and the creative work of women in the United States, Mexico, and around the globe. Women's Studies courses also demonstrate that knowledge is created both in and outside of the University, therefore, many courses integrate the knowledge and experience of community activists, community organizations, and women in the El Paso/Juárez region.

A minor in Women's Studies complements any major at the University and will prepare students for a wide range of careers. Whether a student plans to be a lawyer, a journalist, business executive, social worker, educator, or political official, women's studies courses can help students learn about the specific challenges women face and develop solutions to gender inequity. If a student plans to attend graduate school, the minor in Women's Studies will prepare her or him for advanced study as a Women's Studies scholar.

Minor in Women's Studies

To complete a Women's Studies minor, students must earn at least 18 hours in courses approved for Women's Studies credit. WS 2300, Introduction to Women's Studies is required. At least 12 hours must be completed at the upper-division level and in more than one discipline. Students desiring to pursue a minor in Women's Studies should consult with the Women's Studies Director to determine a course of study suitable to their interests and professional needs. The following list of courses has been approved for Women's Studies credit. Courses that are not listed but contain a substantial women's studies component may be approved for the minor by the Women's Studies Director.

Certificate in Women's Studies and Gender Studies

To complete a Certificate in Women's and Gender Studies, students must earn at least 12 hours in courses approved for Women's Studies credit from at least two different disciplines. WS 2300, Introduction to Women's Studies is required. Students desiring to pursue a certificate in Women's Studies should consult with the Women's Studies Director to determine a course of study suitable to their interests and professional needs. The following list of courses has been approved for Women's Studies credit. Courses that are not listed but contain a substantial women's or gender studies component may be approved for the minor by the Women's Studies Director.

Chicano Studies:

CHIC 3301 La Chicana

Criminal Justice:

CRIJ 3321 Family Violence

CRIJ 3370 Victimless Crime

CRIJ 4300 Selected Topics: Women and Crime

English:

ENGL 3360 Women in Literature

Health Sciences:

HSCI 4303 Family Life and Human Sexuality

History:

HIST 3390 Special Topics: Women and the West

HIST 3391 History of Women

Kinesiology:

KIN 4310 Selected Topics: Women and Sports

Languages and Linguistics:

FREN 4390, GERM4390, PORT 4390, RUSS 4390,

SPAN 4390 Special Topics in Literature and Women

Management:

MGMT 4399 Current Topics: Men and Women as Colleagues

Political Science:

POLS 4314 Women, Power and Politics

Psychology:

PSYC 2305 Psychology of Human Sexuality

Social Work:

SOWK 3365 Social Work with Special Populations

Sociology and Anthropology:

SOCI 2315 The Sociology of Marriage and the Family

SOCI 3341 Special Topics in La Chicana and Women and Society

SOCI 3370 Sociology of Sex Roles

Theatre Arts:

THEA 3356 Women in Drama

THEA 3395 Women in Film

Women's Studies (WS)

2300 Introduction to Women's Studies (3-0)

Introduces students to the interdisciplinary field of women's studies. Course may include, but is not limited to, the following topics: the historical basis of gender inequality, the history of social movements for gender equality; women's achievements throughout history in various professional and academic fields; women's social, economic, and political status in the U.S., Mexico, and around the globe; gender relations; intersections of race, sexuality, class and gender; cultural representations of women.

3310 Directed Study (0-0-3)

Directed program of independent readings and/or a research project on an approved topic in women's studies. Requires consent of the course instructor and the program director. *Prerequisite:* Department approval.

3320 Internship in Women's Studies (0-0-3)

Field-based learning experience to explore the relationship between feminist theory and collective action. Student is assigned two days (or 12-16 hours) each week to an agency or organization in the El Paso/Juárez area that addresses women's or gender or sexuality issues. Includes a weekly seminar and final research project. Requires consent of the course instructor and the program director. *Prerequisites:* WS 2300 with a grade of "C" or better and department approval. WS 2300 may be taken concurrently with WS 3320.

3390 Special Topics in Women's Studies (3-0)

Examination of a particular theme or topic in women's studies from an interdisciplinary or discipline-specific perspective. See the schedule of classes for designated topic. Topics will vary according to instructor. May be repeated for credit when topic varies.

4310 Feminist Theory (3-0)

Traces evolving definitions of feminism through history, as theorists seek to understand the causes of gender inequality and women's diverse identities and oppressions. In addition to examining the impact of feminist theory across academic disciplines, the course also explores the political and practical application of contemporary feminist thought. *Prerequisite:* WS 2300 with a grade of "C" or better. WS 2300 may be taken concurrently with WS 4310.

4360 Junior/Senior Seminar in Women's Studies (3-0)

Advanced research, readings and discussion on a major theme in women's studies. Students will refine research methods and theoretical approaches to the field, and they will develop an original research paper related to the course topic. Themes will vary with instructor. See the schedule of classes for designated topic. May be repeated for credit when the topic varies. *Prerequisites:* ENGL 1312 and Junior/Senior standing.



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College of Science

In 1913, the curriculum of the Texas State School of Mines and Metallurgy included physics and mining, engineering, mathematics, chemistry, geology, mineralogy, shop work, and drawing. From these roots, The University of Texas at El Paso's College of Science has grown to over 100 faculty in five academic departments—Biological Sciences, Chemistry, Geological Sciences, Mathematical Sciences, and Physics.

The College of Science seeks to educate scientists and mathematicians who want to participate in the discovery, creation, application and dissemination of knowledge, and who desire professional preparation as scientists, teachers, leaders and informed citizens in a multicultural and global society. This is the primary mission of the College of Science.

The College of Science offers degree programs at the undergraduate and graduate level in Bioinformatics (MS), Biological Sciences (BS, MS, PhD), Chemistry (BS, MS, PhD), Environmental Science (BS), Geological Sciences (BS, MS, PhD), Mathematical Sciences (BS, MS), and Physics (BS). In addition, the College offers a Master of Arts in Teaching (MAT), with specializations in Mathematics, Life/Earth Science, and Physical Science, and doctoral (PhD) degrees in Environmental Science and Engineering, and in Materials Science and Engineering. Reflecting the long connection between the arts and sciences, each academic department also offers a Bachelor of Arts degree program. Each of our academic departments offers a variety of opportunities for undergraduate students to engage in research experiences with faculty working on cutting-edge research with state-of-the-art instrumentation and techniques. Faculty of the College share a commitment to the idea that teaching and research are critically important in the education of students in science. The College is proud of the large number of undergraduates that participate in research laboratories.

The College of Science is committed to the success of our students and to increasing the diversity of the community of scientists and mathematicians. To that end, we strive to develop a civil and respectful atmosphere that allows all to feel welcomed in our common pursuit of discovery, innovation and integration and to participate in the free exchange of ideas necessary to advance knowledge. The Minority Access to Research Careers (MARC), the Research Initiative for Scientific Enhancement (RISE), and the Medical Professions Institute (MPI) focus on providing undergraduate research experiences and career opportunities for students interested in pursuing medical/health professions and biomedical science research careers.

The College of Science has expanded its outreach programs, in conjunction with the College of Education, to better serve the educational needs of our community through the Pathways High School Program, the Math and Science Teachers Academy (MaST), and the Strategic Teacher Education Program to Uplift the Profession (STEP-UP). Students interested in the teaching profession are supported through our Secondary Education minor in collaboration with the Colleges of Education and Liberal Arts.

Office of the Dean, College of Science, Bell Hall 100

The Dean's Office for the College of Science is committed to promoting student success in the context of quality academic programs. It plays an important role in facilitating and certifying student progress toward their degrees, and directly interacts with undergraduate students in such areas as changes of majors, formulation and adjustment of personalized degree plans, confirmation of graduating senior status, special advising for pre-professional and secondary education curricula, counseling for academic probation/suspension and re-instatement issues, and resolution of a variety of academic problems. A major navigation resource for students is the College of Science website accessed through the campus utep.edu address. Generalized degree plans, samples of petition forms, a calendar of events, and information about Departments and faculty can be found here.

Undergraduate Programs

Each department of the College of Science offers the BS degree subject to the general requirements listed below. Each department also offers the Bachelor of Arts (BA) degree subject to the general requirements listed in the College of Liberal Arts.

A student planning a technical career or graduate work is advised to follow the BS degree route. Either the BS or the BA degree is suitable for admission to health professional schools (students should refer to the Preprofessional Programs section).

BS programs that include course work leading to Secondary Teacher Certification are offered by each department and in three different interdisciplinary programs in science. BA programs leading to Secondary Teacher Certification are also available.

Departmental Honors Programs

The Departments of Biological Sciences, Chemistry, Geological Sciences, Physics, and Psychology have departmental honors programs for qualified undergraduates. Information about these programs is found in each department's section of this catalog.

Bachelor of Science Degree Requirements

The BS degree in all science disciplines requires a minimum of 120 semester hours of credit including a minimum of 37 upper-division (junior and senior) semester hours. A GPA of 2.0 must be achieved in all course work at UTEP and in all course work in the major department. In addition, a grade of "C" or better must be achieved in the following courses: all courses used to fulfill the University Core Curriculum requirements, all lower-division courses in the major and minor, and all lower-division MATH and STAT courses. Additionally, some departments require a grade of "C" or better in required upper-division courses that are prerequisites for later courses in a sequence. Individual degree plans may restrict or extend some of the general education requirements, which are:

Communication: Completion of the English composition and speech component of the University Core Curriculum.

Mathematics: Completion of MATH 1411 and either MATH 1312 or the sequence
STAT 2380, 2182, and 2381.

Natural Science: Completion of two semesters of a natural science (lecture and laboratory) that is not the major or the minor (if any).

Humanities: Completion of the humanities component of the University Core Curriculum.

Visual and Performing Arts: Completion of the visual and performing arts component of the University Core Curriculum.

U.S. History: HIST 1301 and 1302.

Political Science: POLS 2310 and 2311.

Social and Behavioral Sciences: Completion of the social and behavioral sciences component of the University Core Curriculum.

Institutionally Designated Option: Completion of the Institutionally Designated Option component of the University Core Curriculum.

Major: Completion of a major field concentration of prescribed courses. Specific disciplines have requirements with respect to total hours and upper-division hours. All lower-division courses in the major must be completed with a "C" or better.

Minor: Specific disciplines may require a minor. Those disciplines that require a minor have requirements with respect to total hours and how many of these must be in upper division hours. Some disciplines prescribe courses that fulfill the minor requirements, whereas others allow wide latitude in the courses selected. Students should check the selections of the catalog dealing with minor fields for their major as well as their minor department. All lower-division courses in the minor must be completed with a "C" or better. Each degree plan specifies acceptable minors and College of Science minors are listed by each department. Secondary teacher certification requires a minor in secondary education.

Elective Courses: In addition to the above requirements, elective courses of general interest or relevance to the major field of the student as needed to complete the required 120 semester hours credit and the minimum 37 upper-division semester hours of credit are required. Students should consult with their advisor in selecting electives that will be appropriate for their career path. Courses in which the material is repetitive of, or included within, courses required by the Department or College may not be applied as elective credit toward the BS degree.

Major Fields

The College of Science offers BS degrees in the following disciplines: Applied Mathematics, Biological Sciences, Chemistry, Earth Science, Geological Sciences, Geophysics, Mathematics, Microbiology, Physics, and Psychology. The specific requirements for these disciplines and various options may be found in the academic department sections of this catalog (Psychology is listed under the College of Liberal Arts). In addition, BS degrees are offered in the following interdisciplinary areas: Environmental Science, and Interdisciplinary Studies.

Students planning to obtain a degree in the College of Science must major in one of the above fields. Students planning to enter medical or dental schools normally obtain a BS or BA degree in science and, for this reason, should declare a major field (pre-medical and pre-dental are not major fields).

Double Majors

A student who fulfills requirements for two majors prescribed by academic departments in the College of Science (or any other college) may earn a degree with a double major. Double majors in a single department are not allowed. Double majors must satisfactorily complete all course work required of the major in each department/college. A course of study requiring more than 120 semester credit hours may well result from seeking a double major; students should seek advice from their principal advisor before beginning.

Second Baccalaureate Degrees

Students who have earned a baccalaureate degree at an accredited institution may be eligible to enroll as candidates for a second baccalaureate degree in the College of Science. This degree will be awarded upon satisfactory completion of all Bachelor of Science degree requirements in the College of Science. Students seeking a second baccalaureate degree must complete at least 24 semester hours, specified by the department, following the award of the first baccalaureate degree. Students may petition the Dean of Science to reserve up to 9 semester hours taken during the last semester of the initial degree work for credit toward the second BS degree. Students may not obtain a second baccalaureate degree in the same academic department as the first degree.

Pre-Science Program

Circles of Learning for Entering Students (CircLES)

The Entering Students Program for Engineering and Science

Engineering Bldg., Room E-229
Phone: (915) 747-6083
Fax: (915) 747-8878

Program Description

Circles of Learning for Entering Students (CircLES) is a comprehensive retention program targeting first-time freshman and first-time transfer students in the sciences, engineering and mathematics (SEM). The goals of CircLES are to increase retention, improve academic performance, and add value to a student's education through the creation of an environment where students make connections with the university, the colleges, faculty, upper-division students, and their peers. A learning environment is emphasized in the first year where entering students can be successful and begin to develop lifelong learning habits. There are four major foci within the CircLES Program, all coordinated by the Director of the Entering Student Program. Areas of focus include: 1) a mandatory college-specific orientation program in the summer prior to matriculation; 2) mandatory placement in learning communities (clusters) in the first year; 3) strong developmental advising and early intervention; 4) leadership development. Since its inception, the CircLES program has become recognized as a model on campus and elsewhere for creating a strong foundation for entering students to springboard them toward a successful college and (eventually) professional career.

Vision

The CircLES Program wants to be a recognized model for creating a strong foundation for entering students to springboard them toward a successful college and professional career.

Mission Statement

The CircLES Program is dedicated to: 1) providing pre-engineering and pre-science students with the skills and knowledge to become successful college students; 2) developing leadership skills and self-awareness in entering and other students to foster their success; and 3) connecting entering students to the university, the Colleges of Engineering and Science faculty, and each other.

Educational Objectives for the CircLES Program

1. To provide pre-engineering and pre-science students with the motivation, skills and knowledge to become successful college students and to become successful engineering and science students.
2. To introduce pre-engineering and pre-science students to team building and group dynamic skills.
3. To begin developing leadership skills in pre-engineering and pre-science students.
4. To increase the awareness of pre-engineering and pre-science students of the opportunities available to engineering and science graduates.

4. To increase the awareness of pre-engineering and pre-science students of the opportunities available to engineering and science graduates.

Students wishing to major in science will be classified as pre-science students for not less than one semester after admission to the University. Students must fulfill all pre-science requirements and must:

1. Complete the specified orientation program.
2. Meet with a pre-science advisor each semester.
3. Complete an approved program of study that may include one or more of the following courses: UNIV 1301; SCI 1100, 1300, 1400; MATH 0310, 0311, 1411, 1508; ENGL 0310, 0311, 1311, 1312. Although required for the pre-science program, some of these courses do not meet departmental degree requirements. Check with your CircLES advisor.
4. Maintain a minimum overall GPA of 2.0 in all designated courses.
5. Complete certain specified courses with a "C" or better.
6. Make satisfactory progress toward completion of the pre-science Program.

Upon completion of the pre-science program requirements, students will petition for a change of major into a selected science department.

Advising

All students enrolled in the College of Science must be advised prior to registration. Students should follow the directions for obtaining academic advice outlined in the *Class Schedule* under the Advising: College of Science section. Although the Department of Psychology may not require advising, it is strongly recommended that students seeking the BS in psychology obtain degree plan advice from the Office of the Dean of Science. In particular, these students are advised not to postpone the required courses in mathematics.

Students planning a career in Clinical Laboratory Science, Nursing, Physical Therapy, Pharmacy, or other allied health fields are referred to the College of Health Sciences section of this catalog and should be advised in that College.

Pre-professional Advice

The Office of the Dean of Science sponsors a Medical Professions Institute, which houses the Preprofessional Advisor. Students should work closely with this advisor if they are interested in entering medical, dental, veterinary or physician assistant schools. These professions normally require a baccalaureate degree. No particular major is required for entrance, although a minimum of two years of biology, two years of chemistry (including a year of organic chemistry), a semester of calculus, and one year of physics are required for admission to most health professional schools. Thus, a major in Chemistry, Biological Sciences, Microbiology, or Physics might be appropriate.

Secondary Teacher Certification (8-12)

The College of Science encourages students to consider teaching in the secondary schools as a career goal. The College realizes that better prepared mathematics and science teachers will result in better prepared freshmen enrolled at UTEP. Certification for teaching in the secondary schools is available in the following BS degree fields: Mathematics Certification, Mathematics/Physics Certification, Science 8-12 (formerly known as Composite Certification) (Biology, Chemistry, Environmental Science, or Interdisciplinary Studies), Life Science Certification (Biological Sciences or Interdisciplinary Studies), Physical Science Certification (Chemistry or Interdisciplinary Studies). All majors leading to high school teacher certification require a minor in secondary education.

Science 8-12 Certification where the major is in Biological Sciences, Chemistry, or Environmental Science includes a minor in Secondary Education and 19-20 additional hours in science. Science 8-12 Certification where the major is Interdisciplinary Studies requires 58 hours in the sciences. Physical Science Certification where the major is in Chemistry requires 11 additional hours in physics. Physical Science Certification where the major is Interdisciplinary Studies requires 52 hours in chemistry and physics courses. Life Science Certification where the major is Biological Sciences requires 20 additional hours in science. Life Science Certification where the major is Interdisciplinary Studies requires 56 hours of science. Mathematics Certification requires 46 hours in mathematics and an additional 8 hours in science. Mathematics/Physics Certification requires 43 hours in mathematics and 14 hours in physics.

Students planning to teach mathematics may also obtain certification with a BA degree Mathematics (offered by the College of Liberal Arts). In addition, those who already hold a baccalaureate degree in mathematics or a science may obtain a post-baccalaureate or alternative secondary teacher certification in the College of Education. Students should refer to the College of Education section of this catalog for details on these programs. Students of mathematics and sciences considering teaching should inform themselves on these options and decide which is best for them.

Minors in Secondary Education

Secondary certification requires a minor in Secondary Education. Secondary Education minors for BS degrees in Mathematics or Science consist of 21 semester hours. The following courses are required for the minor:

- EDPC 3300 Developmental Variations
 - RED 3342 Reading and Study in the Content Areas
 - SCED 3311 Curriculum Planning in the Secondary School
 - SCED 3317 Multicultural Education in the Secondary School
 - SCED 4691 Student Teaching in the Secondary School.
- The minor for Mathematics students includes:
- SCED 4367 Teaching Math in Secondary School
- The minor for Science students includes:
- SCED 4368 Teaching Science in Secondary School

Admission to Secondary Teacher Education

The College of Education secondary education professional development program may be started prior to admission to teacher education. However, in order to enroll in three of the courses, including the internship, a student must be admitted to secondary teacher education, which requires the following:

1. Credit for ENGL 1311, ENGL 1312, and COMM 1301 with a grade of "C" or better
2. Credit for MATH 1508 or higher with a grade of "C" or better
3. Completion of a minimum of 60 hours of college courses with a minimum overall GPA of 2.5 and minimum major GPA of 2.5.

Application for admission to the program is completed with the Secondary Education Advisor in the College of Science and filed in the College of Education Student Services Office, Education Room 412. Additional requirements may be found in the College of Education section of this catalog.

Secondary Teacher Preparation Programs

Students preparing to teach are advised to carefully plan their course work to allow for the completion of their major coursework before the Internship Semester. The Internship Semester consists of SCED 4691 and SCED 3317. Students are interns in secondary schools for 4 and one-half days a week and take SCED 3317 during the remaining one-half day. Because students are in the schools everyday, it is almost impossible to complete upper-division majors courses during this semester.

Internship Semester

Students preparing to teach are advised to carefully plan their course work to allow for the completion of their major coursework before the Internship Semester.

The Internship Semester consists of SCED 4691 and SCED 3317. Students are interns in secondary schools for 4 and one-half days a week and take SCED 3317 during the remaining one-half day. Because students are in the schools everyday, it is almost impossible to complete upper-division majors courses during this semester.

Minors Outside the College of Science

Approved College of Science minors of Biology, Chemistry, Geology, Mathematics, and Physics are detailed in the academic department sections of this catalog. These minors are approved minors for the BS in Psychology. In addition to these minors, the following minors outside the College of Science are approved for the listed BS degrees:

Accounting (BS in Applied Mathematics and Mathematics)

Students should refer to the College of Business Administration section of this catalog.

Anthropology (BS in Biological Sciences and Geological Sciences)

Students should refer to the Department of Sociology and Anthropology, College of Liberal Arts section of this catalog.

Computer Science (BS in Applied Mathematics, Biological Sciences, Chemistry, Geological Sciences, Mathematics, and Psychology)

Students should refer to the Department of Computer Science, College of Engineering section of this catalog.

Economics (BS in Applied Mathematics and Mathematics)

Students should refer to the College of Business Administration section of this catalog.

Environmental Science (BS in Chemistry)

BIOL 1305, BIOL 1107, BIOL 3414; CE 3325, CE 4390; and an additional course selected from GEOL 4380, GEOL 4384, or MCR 3328-MCR 3128. (The additional science, not the major of minor, cannot include BIOL 1305-BIOL 1106.)

General Business (BS in Mathematics)

Students should refer to the College of Business Administration section of this catalog.

Management (BS in Mathematics)

Students should refer to the College of Business Administration section of this catalog.

Psychology (BS in Biological Sciences)

Students should refer to the Department of Psychology, College of Liberal Arts section of this catalog. (PSYC 1303 is waived if STAT 2380, STAT 2182, and STAT 2381 are completed with a "C" or better.)

Secondary Education/Mathematics (BS in Mathematics)

Students should refer above.

Secondary Education/Science (BS in Biological Sciences, Chemistry, Environmental Science, Mathematical Science)

Students should refer above.

Degree Plans

Degree plans are the major tools by which students, their advisors, their departments, and the College of Science track academic progress. Generalized degree plans are available on-line at the College of Science website. However, any student who has completed 60 credit hours and is calculus-ready is required to file for an individualized degree plan that is specific to their personal academic history. The degree plan also lists the outstanding requirements for graduation, and must be obtained from the Office of the Dean of the College of Science (Dean of the College of Liberal Arts for the BA degree). A copy of the degree plan will also be filed with the student's major department. The degree plan must be updated following the completion of 90 credit hours. Each student is required to obtain confirmation of their standing from the Office of the Dean of the College of Science prior to registering for the semester in which all course work for a degree will be completed. The academic dean (Science, Liberal Arts) is therefore the final gatekeeper for determining if all requirements for a degree have been met and the student may proceed to graduate.

Lower-Division Courses

The prerequisite structure in science programs requires careful attention to course sequences. These courses should be completed before the student reaches Junior standing (60 semester credit hours). These and all freshman courses specified as required for the degree must be completed before Senior standing (90 semester credit hours) in order to count toward the minimum hours required for the degree.

Enrollment in MATH 1411 or equivalent is required in order to declare a major. It is to the student's advantage to continue enrolling in the other required mathematics courses since success in these courses largely depends upon what was learned in the previous course and delaying enrollment in higher level courses often requires considerable review.

Required Lower-Division Courses in the Major and Minor should be completed with a grade of "C" or better before enrollment in upper-division courses. These lower-division courses are listed below. Other lower-division College of Science courses required for the various degree plans are included in brackets. These courses should also be completed with a "C" or better before enrolling in upper-division courses if the discipline is the minor.

Applied Mathematics

MATH 1411, MATH 1312, MATH 2313, MATH 2300

[CS 1401 or CS 1420; PHYS 2420, PHYS 2421]

Biological Sciences

BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108; (for biomedical track) MCR 2440

[CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; MATH 1411, MATH 1312

(or STAT 2380 - STAT 1182, STAT 2381)]

Chemistry

CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, CHEM 2101, CHEM 2261 - CHEM 2161

[MATH 1411, MATH 1312, MATH 2313; PHYS 2420, PHYS 2421]

Environmental Science

ESCI 1301 - ESCI 1101, ESCI 2201, ESCI 2101, ESCI 2102, ESCI 2103

[BIOL 1305 - 1107 (or GEOL 1313 - GEOL 1103), BIOL 1306 - BIOL 1108 (or GEOL 1314 - GEOL 1104 or PHYS 2420); CHEM 1305 - CHEM 1105, CHEM 1306 - 1106; MATH 1411, MATH 1312 (or STAT 2381); STAT 2380 - STAT 2182]

Geological Sciences

GEOL 1313 - GEOL 1103 (or GEOL 1311), GEOL 1304 - GEOL 1104 (or GEOL 1312), GEOL 2411, GEOL 3412

[CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; MATH 1411, MATH 1312; PHYS 2420, PHYS 2421]

Geophysics

GEOL 1313 - GEOL 1103, (or GEOL 1311), GEOL 1304 - GEOL 1104 (or GEOL 1312), GEOL 2411, GEOL 2412, MATH 1411, MATH 1312, MATH 2313; PHYS 2420-PHYS 2421

Mathematics

MATH 1411, MATH 1312, MATH 2313

[CS 1401 or CS 1420; PHYS 2420, PHYS 2421]

Microbiology

BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108; MCR 2440

[CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; MATH 1411, MATH 1312 (or STAT 2380 - STAT 1182, STAT 2381); PHYS 1403 - PHYS 1404 (or PHYS 2420 - PHYS 2421)]

Physics

PHYS 2420, PHYS 2421, PHYS 2230

[CS 1401 or CS 1420; CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; MATH 1411, MATH 1312, MATH 2313]

Psychology

PSYC 1301, PSYC 1303

[MATH 1411, MATH 1312 (or STAT 2380 - STAT 1182, STAT 2381)]

Upper-Division Courses

A minimum of 37 semester hours of upper-division course work is required. The various majors have different requirements for upper-division course work in the major and minor. See those respective sections. Upper-division courses are not often offered each semester and summer. Students are cautioned to plan ahead in terms of when these courses are generally offered and what prerequisites are needed.

INTERDISCIPLINARY DEGREES

Bell Hall, Room 100
(915) 747-5536
science@utep.edu

Three interdisciplinary BS degrees with Secondary Education minors are administered from the Office of the Dean of Science. An interdisciplinary BS degree in Environmental Science is administered by a separate program director, as indicated. All interdisciplinary degrees are described below.

Bachelor of Science in Interdisciplinary Studies-Life Science Certification 8-12

The requirement to obtain the BS in Interdisciplinary Studies-Life Science Certification 8-12 consists of the general College of Science requirements plus the following specific requirements:

Interdisciplinary Major (a minimum of 56 semester hours including 28 semester hours of upper-division course work): CHEM 1305 - 1105, CHEM 1306 - 1106, CHEM 3321 - CHEM 3221, CHEM 3322 - CHEM 3222, PHYS 1403, PHYS 1404, BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108, BIOL 3320, BIOL 3414, BIOL 3321, BIOL 3416, MCR 2440 or BOT 2410, ZOOL 4181 and ZOOL 4380 or BIOL 4388.

Other: MATH 1312 is required.

This degree does not guarantee state certification; it meets the State of Texas requirements for certification. Students must pass State exams in order to be certified.

Bachelor of Science in Interdisciplinary Studies- Science Certification 8-12

The requirement to obtain the BS in Interdisciplinary Studies- Science Certification consists of the general College of Science requirements plus the following specific requirements:

Interdisciplinary Major (a minimum of 58 semester hours including 24 semester hours of upper-division course work): BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108, CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, GEOL 1313 - GEOL 1103, GEOL 1314 - GEOL 1104, PHYS 2420, PHYS 2421, PHYS 2230 are required lower-division courses. In addition, a minimum of 24 semester hours of approved upper-division course work in Biological Sciences, Chemistry, Geological Sciences, and Physics is required. This must include a minimum of 3 semester hours in each of the disciplines and a minimum of 12 semester hours of upper-division course work must be taken in a single department.

Other: MATH 1312 is required.

This degree does not guarantee state certification; it meets the State of Texas requirements for certification. Students must pass State exams in order to be certified.

Bachelor of Science in Interdisciplinary Studies-Physical Science Certification 8-12

The requirement to obtain the BS in Interdisciplinary Studies-Physical Science Certification consists of the general College of Science requirements plus the following specific requirements:

Interdisciplinary Major (a minimum of 52 semester hours including 31 semester hours of upper-division course work): CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, CHEM 2261 - CHEM 2161, CHEM 3321 - CHEM 3221, CHEM 3322 - CHEM 3222, CHEM 3310 - CHEM 3110, PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3323 or PHYS 3325, PHYS 3243 (3 times). In addition to the above, 8 upper division hours in Physics.

Other: MATH 1312, MATH 2313, MATH 2326

Secondary Education Concentration

This concentration may be selected by students majoring in any of the above interdisciplinary degree programs and simply requires a minor in Secondary Education.

ENVIRONMENTAL SCIENCE

207-A Geology Building
(915) 747-5554
esci@utep.edu

PROGRAM DIRECTOR: Carl Lieb
PROGRAM COORDINATOR: Joel Gilbert

The Environmental Science Program offers students an interdisciplinary degree plan in which the student will select a concentration area in Environmental Biology, Environmental Chemistry, Environmental Geosciences or Environmental Hydrosociences.

All students will fulfill the University Foundation courses and the Environmental Science Core, a sequence of environmental science classes. In addition, students take courses in their selected concentration area. Each concentration area is different and contain unique course requirements.

The BS degree in Environmental Science may be used to obtain a concentration in Secondary Teacher Certification 8-12.

Courses required of all students in the program:

Environmental Science Core (32 semester hours)

| | | |
|------|-----------|---|
| MATH | 1411 | Calculus I (Satisfies University Core Requirement See University Core Curriculum section in catalog) |
| MATH | 1312 | Calculus II-(Biology Option students may substitute STAT 2381 for MATH 1312) |
| STAT | 2380-2182 | Statistical Methods I + Computing Lab |
| ESCI | 1301-1101 | Introduction to Environmental Science + Lab |
| ESCI | 2101 | Laboratory for Environmental Practice I |
| ESCI | 2102 | Laboratory for Environmental Practice II |
| ESCI | 2103 | Laboratory for Environmental Practice III |
| ESCI | 2201 | Environmental Science Practice |
| ESCI | 4301 | Environmental Science Senior Seminar |
| ESCI | 4398 | Environmental Science Internship |

Plus students will take a minimum of three to six semester hours from a supplementary core list as specified under each concentration.

Environmental Science Concentrations

Students will choose a concentration from among Environmental Biology, Environmental Chemistry, Environmental Geoscience, and Environmental Hydrosociences, or Secondary Education (See descriptions below.)

Environmental Biology Concentration

- 1) Foundation Courses (University Core Curriculum, classes not included in this major)
- 2) Environmental Science Core Courses (listed previously)
- 3) Environmental Science Supplementary Core Courses.

Three semester hours chosen from:

BIOL 3427, BIOL 3416, MCR 3328, GEOG 3306, HSIC 3306, or any upper division Environmental Ethics or Environmental Policy Course

- 4) Environmental Biology Concentration Courses

| | | |
|------|-----------|---|
| BIOL | 1305-1107 | General Biology + Topics in Study of Life I (Satisfies University Core, Science) |
| BIOL | 1306-1108 | Organismal Biology + Lab (Satisfies University Core, Science) |
| CHEM | 1305-1105 | General Chemistry I + Lab |
| CHEM | 1306-1106 | General Chemistry II + Lab |
| BIOL | 3416 | Ecology |
| BIOL | 4428 | Environmental Stressors in Ecosystems |

Plus three 12 hours from the following:

| | | |
|------|-----------|----------------------|
| BOT | 2410 | General Botany |
| GEOG | 1306-1106 | Physical Geography |
| MCR | 2440 | General Microbiology |
| ZOOL | 2406 | General Zoology |
| ZOOL | 2466 | Invertebrate Zoology |

Plus 22 hours of upper division electives from the following:

| | | |
|------|--------------|--|
| BIOL | 3320 | Genetics |
| BIOL | 3321 | Evolutionary Theory |
| BIOL | 3326 | Animal Ecology |
| BIOL | 3414 | Molecular Cell Biology |
| BIOL | 3427 | Desert Ecology |
| BIOL | 4317 | Plant Ecology |
| BIOL | 4225 | Field Biology |
| BIOL | 4324 | Animal Behavior |
| BOT | 3330 | Comparative Plant Morphology |
| BOT | 3437 | Plant Taxonomy |
| CHEM | 3324-3124 | Organic Chemistry I |
| CHEM | 3325-3125 | Organic Chemistry II |
| CHEM | 4330 or 4332 | Biochemistry: Structure and Function <u>or</u> Biochemistry: Dynamics and Information |
| MCR | 3328 | Microorganisms in Ecosystems |
| ZOOL | 4476 | Fish, Amphibians and Reptiles |
| ZOOL | 4478 | Birds and Mammals |
| ZOOL | 3468 | Entomology |

Environmental Chemistry Concentration

- 1) Foundation Courses (University Core Curriculum, classes not included in this major)
- 2) Environmental Science Core Courses (listed previously)
- 3) Environmental Science Supplementary Core Courses.

Three semester hours chosen from:

BIOL 3427, GEOP 4336, HSCI 3306, PHYS 3325, or any upper division Environmental Ethics or Environmental Policy Course

- 4) Environmental Chemistry Concentration Courses.

BIOL 1305-1107 General Biology + Topics in Study of Life I **and**

BIOL 1306-1108 Organismal Biology + Lab

or

GEOL 1313-1103 Physical Geology + Lab **and**

GEOL 1314-1104 Historical Geology + Lab

CHEM 1305-1105 General Chemistry I + Lab

CHEM 1306-1106 General Chemistry II + Lab

PHYS 2420 Introductory Mechanics

PHYS 2421 Fields and Waves

MATH 2313 Calculus III

CHEM 3321-3221 Organic Chemistry I + Lab

CHEM 3322-3222 Organic Chemistry II + Lab

CHEM 3310-3110 Analytical Chemistry + Lab

CHEM 3351-3151 Physical Chemistry I + Lab

CHEM 3352-3152 Physical Chemistry II + Lab

CHEM 4211-4212 Instrumental Methods of Analytical Chemistry

CHEM 4330 Biochemistry: Structure and Function

CE 3325 Environmental Engineering Fundamentals

Plus 3 Semester Hours of electives

Environmental Geoscience Concentration

- 1) Foundation Courses (University Core Curriculum, classes not included in this major)
- 2) Environmental Science Core Courses. (listed previously).

Six semester hours chosen from:

BIOL 3427, MCR 3328, GEOG 3306, GEOG 4307, GEOL 4385, HSCI 3306, PHYS 3243, PHYS 3325, PHYS 3331, PHYS 4341, or any upper division Environmental Ethics or Environmental Policy Course

GEOL 1313-1103 Physical Geology + Lab

(Satisfies University Core, Science)

GEOL 1314-1104 Historical Geology + Lab

(Satisfies University Core, Science)

CHEM 1305-1105 General Chemistry + Lab

CHEM 1306-1106 General Chemistry + Lab

PHYS 2420 Introductory Mechanics

PHYS 2421 Fields and Waves

GEOL 2411 Mineralogy and Petrology

GEOL 3412 Geoscience Processes

GEOL 3425 Sedimentology

GEOL 3423 Structural Geology

GEOP 4336 Remote Sensing

GEOL 4665 Field Geology

GEOL 3315 Igneous and Metamorphic Petrology

Plus three (3) additional upper-division semester hours of electives

Environmental Hydrosience Concentration

1) Foundation Courses (University Core Curriculum, classes not included in this major)

2) Environmental Science Core courses

3) Environmental Science Supplementary Core Courses.

BIOL 3427, BIOL 3416, GEOP 4336, HSCI 3306, GEOL 4316, MCR 3328, GEOL 4385, PHYS 3243, PHYS 3325, PHYS 3331, PHYS 4341, or any upper division Environmental Ethics or Environmental Policy Course

GEOL 1313-1103 Physical Geology + Lab

(Satisfies University Core, Science)

BIOL 1314-1104 General Biology + Topics in Study of Life I

(from University Core, Science)

CHEM 1305-1105⁺ General Chemistry + Lab

CHEM 1306-1106 General Chemistry + Lab

PHYS 2420 Introduction to Mechanics

PHYS 2421 Fields and Waves

PHYS 2230 Thermal and Fluid Physics

GEOL 2411 Mineralogy

GEOL 3315 Igneous and Metamorphic Petrology

GEOL 3412 Geoscience Processes

GEOL 4665 Field Geology

MATH 2326 Differential Equations

Plus one (1) additional upper division semester hour

Plus eight (8) additional semester hours of electives

Minor in Environmental Science

(18 hours required, including a minimum of 6 hours in upper division courses)

ESCI 1301-1101 Introduction to Environmental Science + Lab

ESCI 2201 Environmental Practice

STAT 2380-2182 Statistical Methods I and Computing Laboratory for Statistics 2380 (if STAT 2380 not required by major)

ESCI 4301 Environmental Science Senior Seminar

At least two from:

ESCI 2101 Laboratory for Environmental Practice I
(rocks, sediment)

ESCI 2102 Laboratory for Environmental Practice II
(water, air)

ESCI 2103 Laboratory for Environmental Practice III
(biologic)

Three to six hours from*:

| | |
|-------------------|--|
| CHEM 3324-3124 | Organic Chemistry I and Laboratory for Chemistry 3324 |
| CHEM 3310 | Analytical Chemistry |
| GEOG 3306 | Weather and Climate |
| GEOG 4307 | Geography of Arid Lands |
| GEOL 4385 | Introduction to Geographical Information Systems |
| GEOL 4380 | Environmental Geology and Geophysics |
| GEOL 4384 | Nuclear Waste Disposal |
| GEOP 4332 or 4334 | Exploration Geophysics: Seismic Methods or Non-Seismic Methods |
| GEOP 4336 | Introduction to Remote Sensing |
| HSCI 3306 | Environmental Health |
| PHYS 2230 | Thermal and Fluid Physics |
| PHYS 3325 | Survey of Modern Physics |
| PHYS 3331 | Thermal Physics |

*courses listed here that are offered by the student's major department cannot be counted towards the minor

Secondary Education Concentration

Environmental sciences majors wishing to achieve secondary education certification as they complete the B.S. degree must minor in Secondary Education and follow certification tracks for Science for grades 8-12. Adequate scores on State-administered examination after completion of all coursework are also required for teacher certification.

Major (a minimum of 32 semester hours including 15 semester hours of upper division course work): ESCI 1301 - ESCI 1101, ESCI 2201, ESCI 2101, ESCI 2102, ESCI 2103, STAT 2380, STAT 2182, ESCI 4301, GEOG 3306, BIOL 4225 and BIOL 3414 are required. Additionally, ten (10) semester hours of upper division courses are selected from BIOL 3321, BIOL 4428, ZOO 4380-ZOO 4181, CHEM 3324-CHEM 1324, GEOL 3412, HSCI 3306

Minor (21 semester hours taken as field blocks): EDPC 3300, RED 3342, SCED 3311, SCED 3317, SCED 4368, SCED 4691. See the preceding section on Minors in Secondary Education for an overview of admission and internship requirements to the Teacher Education Program.

Additional Science: Certification is offered in Science.

Science (30 semester hours): CHEM 1305 - CHEM 1105*, CHEM 1306 - CHEM 1106*, BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108, PHYS 2420, GEOL 1311

* Courses used to satisfy program requirements for Core Curriculum

Interdisciplinary Courses, Environmental Science (ESCI)

1101 Environmental Science Laboratory (0-3)

Concurrent enrollment in ESCI 1301 suggested. Enrollment in ESCI 1101 required for environmental science majors. Laboratory fee required.

1301 Introduction to Environmental Science (3-0)

(★ ENVR 1301)

An introduction to environmental science, emphasizing the multi-disciplinary approach required to document, understand, and solve environmental problems. Topics include such large scale challenges as global warming, deforestation, and energy consumption, as well as more local problems such as water and air quality, organic and inorganic toxins, and human health. Material of regional and current interest is incorporated.

2101 Laboratory for Environmental Practice I (0-3)

Field and laboratory sampling methods for the collection and description of unconsolidated sediments and rocks. *Prerequisite:* ESCI 2201 or concurrent enrollment in STAT 2380. Laboratory fee required. Transportation fee required.

2102 Laboratory for Environmental Practice II (0-3)

Field and laboratory sampling methods for the collection and description of water and gas samples. *Prerequisite:* ESCI 2201 or concurrent enrollment in STAT 2380. Laboratory fee required.

2103 Laboratory for Environmental Practice III (0-3)

Field and laboratory sampling methods for the collection and description of biological samples. Field trips required. *Prerequisite:* ESCI 2201 or concurrent enrollment in STAT 2380. Laboratory fee required. Transportation fee required.

2201 Environmental Practice (2-0)

A survey of the practical knowledge required to begin a career in the environmental arena. Topics include an overview of environmental agencies, laws, and regulations; quality control/quality assurance (QA/QC) procedures; environmental sampling, including field-work; sample custody, analysis and record-keeping; ethics; the roles of the public and private sectors in environmental management. *Prerequisites:* ESCI 1301, ESCI 1101, and sophomore standing in the College of Science or College of Engineering.

4166 Directed Study, Environmental Science (0-0-1)

4266 Directed Study, Environmental Science (0-0-2)

4366 Directed Study, Environmental Science (0-0-3)

Directed study problems in environmental science, hours and subjects to be approved with each student; for undergraduates students who wish to do special work on a

Directed study problems in environmental science; hours and subjects to be arranged with each student; for undergraduate students who wish to do special work on a special problem. No student may receive credit for more than six hours of directed study work. Application of a directed study towards required upper division elective hours in the major is subject to prior approval by the departmental undergraduate studies committee. *Prerequisite:* Department approval.

4301 Senior Seminar (3-0)

Examination of case studies of the application, successful and unsuccessful, of environmental science at the local, regional, national, and international levels. Examples will illustrate the political, legal, and technical interactions that occur among government, industry, and science as society addresses environmental issues. *Prerequisite:* Senior standing in the college of science or the college of engineering.

4315 Topics in Environmental Science (3-0)

Study of topics in fields such as environmental geology, environmental chemistry, environmental biology, environmental justice, environmental health, physics, hydrology and environmental law. May be repeated when topics vary. *Prerequisite:* Instructor approval.

4398 Environmental Science Internship (0-0-6)

Practical on-the-job experience in federal, state, city-county governmental, and/or private agencies or industries. *Prerequisites:* ESCI 2201 with a grade of "C" or better and department approval.

4399 Senior Thesis (0-0-3)

Guided program of research culminating in the writing of a senior thesis. *Prerequisite:* Instructor approval.

Interdisciplinary Courses (SCI)

The College of Science offers seven interdisciplinary (SCI) courses:

1100 Science Seminar (1-0)

This course will prepare entering students to succeed in the college and introduce students to careers in engineering and science.

1300 Introduction to Science and Engineering (3-0)

This course will help the student develop learning, study and group skills, improve math applications skills and develop critical thinking and basic computer and problem solving skills. Basic concepts in engineering and science will be introduced. (SCI 1300 is identical to ENGR 1300.) *Prerequisite:* MATH 0310. MATH 0310 may be taken concurrently with SCI 1300.

1401 Explanatory Power of Science (3-3)

Milestones in the development of science, including science in the Ancient and Medieval Worlds, the scientific revolution in the late Renaissance; the emergence of working models in physics, chemistry, and biology in the period of the Enlightenment through the mid-nineteenth century; the changing view of the Earth's history with the emergence of geology as a new science; evolutionary theory and the founding of genetics. Consideration of such topics as the explanatory power of empirical data and their interpretation, science vs. pseudo-science, science and theology. Laboratory exercises in science as a progress of investigation. *Prerequisite:* MATH 0310 or placement into MATH 0311 or higher level mathematics course. Laboratory fee required.

1405 Introduction to Earth and Life Sciences (3-3)

Integrated introduction to the earth and life sciences, based on review of fundamental physical and chemical principles. Energetics; thermodynamics; atoms and molecules; origin of the universe, stars, and planetary systems; origin and evolution of life; principles of geology and biology. Interdisciplinary treatment, with emphasis on quantitative analysis and composition.



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Biological Sciences

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ASSISTANT RESEARCH PROFESSORS: Nagy, Roychowdhury

LECTURERS: Dittmer, Saleh, Karaman

The Department of Biological Sciences offers the BA and the BS degrees in Biological Sciences and the BS degree in Microbiology. The BS degrees in Biological Sciences and Microbiology may be used to obtain a concentration in Secondary Teacher Certification.

BS in Biological Sciences

Requirements for the BS degree in Biological Sciences have the general College of Science requirements plus the following specific requirements:

Major (a minimum of 40 semester hours including 21 semester hours of upper-division course work): BIOL 1305 - 1107, 1306 - 1108, 4192; and one of these options:

- Biomedical Concentration:** MCR 2440, BIOL 3414, ZOOL 4181 and either ZOOL 4380 or BIOL 4388, plus a minimum of 19 semester hours (12 or more upper-division) of elective courses in Biological Sciences. BIOL 3320 is strongly recommended as one of the upper-division electives for this track. Students preparing for careers in the health sciences or for postgraduate study in medicine, dentistry, veterinary science, or advanced degrees in cell or molecular biology should select the Biomedical concentration. A minor in chemistry is highly recommended.
- Ecology/Evolutionary Biology Concentration:** BIOL 3416, 3320, 3321, plus a minimum of 21 semester hours (10 or more upper-division) of elective courses in Biological Sciences. Students preparing for careers and/or advanced degrees in such fields as ecology, evolutionary biology, systematics, zoology, plant sciences, bioarchaeology, paleontology, or wildlife and fisheries should select the ecology/evolutionary biology concentration. In addition to the required courses listed above for this track, at least two of the following are strongly recommended: BOT 2410, MCR 2440, ZOOL 2406, ZOOL 2466.

Minor: Acceptable minors are anthropology, chemistry, computer science, environmental science, geological sciences, mathematics, physics, psychology, and secondary education.

Additional Science: CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106 are required. If chemistry is the minor, the additional science requirement may be met by GEOL 1313 - GEOL 1103 (or GEOL 1311), GEOL 1314 - GEOL 1104 (or GEOL 1312); or PHYS 1403 - PHYS 1404; PHYS 2420 and PHYS 2421.

Secondary Education Concentration: Biological sciences majors wishing to achieve secondary education certification as they complete the B.S. degree must minor in Secondary Education and follow certification tracks for either Science or Life Science for grades 8-12. The major and minor requirements for these tracks are the same, but the additional science requirements are different for the Science versus Life Science certification. Adequate scores on State-administered examinations after completion of all coursework are also required for teacher certification.

Major (a minimum of 38 semester hours including 22 semester hours of upper division course work): BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108, BIOL 3320, BIOL 3321, BIOL 3416, BIOL 4192 are required, plus 1) two courses selected from BOT 2410, MCR 2440, ZOOL 2406, or ZOOL 2466, 2) one course selected from BIOL 3414, BIOL 4388 - ZOOL 4181, ZOOL 4380 - ZOOL 4181, and 3) one course selected from BIOL 4324, BIOL 3427, ZOOL 3468, ZOOL 4476, ZOOL 4478. It is recommended that other upper-division course work be selected from BIOL 3427, BIOL 4198, BIOL 4225, or from any of the menu courses listed above.

Minor The minor in secondary education requires the following courses: EDPC 3300 (Requires Admittance to Teacher Education), SCED 3311, SCED 3317, RED 3342, SCED 4368, SCED 4691. See the College of Education catalog for information concerning the admittance to the Teacher Education Program.

Additional Science: Certification is offered in two areas, Science 8-12 and Life Science 8-12.

Science 8-12 (21 semester hours): CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, GEOL 1313 - GEOL 1103, GEOL 1314 - GEOL 1104, PHYS 1403 are required, plus one additional semester hour in either Chemistry, Geological Sciences, or Physics.

Life Science 8-12 (21 semester hours): CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, CHEM 3324 - 3124, GEOL 1313 - GEOL 1103, PHYS 1403, are required, plus one additional semester hour.

BS in Microbiology

The requirement for the BS degree in Microbiology consists of the general College of Science requirements plus the following specific requirements:

Major (a minimum of 42 semester hours including 30 semester hours of upper-division course work): BIOL 1305 - BIOL 1107; BIOL 1306 - BIOL 1108; BIOL 3414; MCR 2440; MCR 3443; MCR 3445; MCR 3449; MCR 4453; BIOL 4192; at least nine semester hours to be selected from BIOL 3318, BIOL 3319, BIOL 3320, BIOL 3330, BIOL 4322, BIOL 4388, MCR 3328, MCR 4329, MCR 4351, MCR 4355, ZOOL 4380-ZOOL 4181, and ZOOL 3464.

Minor (19 semester hours of Chemistry course work including 11 semester hours of upper-division course work): CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, CHEM 3324 - CHEM 3124, CHEM 3325 - CHEM 3125, and CHEM 4330 or CHEM 4332 are required. Under exceptional circumstances, other acceptable minors are (18 semester hours, including at least 6 semester hours of upper-division course work) in Computer Science, Geological Sciences, Mathematics, Physics, and Psychology.

Additional Science: The additional science is restricted to PHYS 1403 - PHYS 1404 (or PHYS 2420, and PHYS 2421), PHYS 2230.

Other: BIOL 4390 and BIOL 4398 are highly recommended.

BA in Biological Sciences

Students should refer to the College of Liberal Arts section of this catalog for the general requirements for the BA degree. The major requirements are the same as for the BS in Biological Science. The minor requirements follow the requirements of the College of Liberal Arts.

Biology as a Minor Field for Other Majors

A minor in biology requires BIOL 1305-BIOL 1107, BIOL 1306-BIOL 1108, and an additional minimum of 10 semester hours, including at least 6 (9 for a BA degree) upper-division hours of organized courses in the Department of Biological Sciences. Because of the breadth of biology as an academic discipline, no single suite of such electives is identified as appropriate for a general minor. Student selection of these 10 semester hours should therefore be guided by their major advisor and home department policies.

Advising/Placement

Biological Sciences and Microbiology majors are required to consult with and have their enrollment approved by a departmental advisor. This advising takes place prior to registration in each semester, ideally as soon as the Schedule of Classes for that term becomes available. An entering freshman with at least one year of high school biology may take an advanced placement examination given by the Student Assessment and Testing Office covering BIOL 1305 and BIOL 1306 (but not BIOL 1107 and 1108, which still must be taken). It is recommended that students taking the placement examination have an SAT combined score of at least 1000.

Departmental Honors in Biological Sciences

Any UTEP student having at least 90 hours of undergraduate credit, and a GPA of at least 3.3 in either in Biological Sciences or Microbiology, and an overall GPA of at

least 3.3, may apply for admission to the program. The Departmental Honors Committee retains the right to accept or not accept a qualified student, taking into consideration the number of applicants, the number of available faculty, and the competence of the individual student. The main requirements for Departmental Honors in Biological Sciences or Microbiology will be the satisfactory completion of an Honors Thesis based upon research in Biological Sciences or Microbiology, maintenance of an overall 3.3 GPA or better until graduation, and the presentation of a seminar on the thesis topic. The student will register for two semesters of BIOL 4398, and the research will be carried out under the direction of a member of the faculty in Biological Sciences. The satisfactory completion of the Honors Thesis will be judged by the thesis-research director and the Departmental Honors Committee. Departmental Honors may be

awarded with or without other currently awarded honors.

Pre-professional Advice

Information about entrance requirements to professional schools may be obtained from the Pre-professional Advisor in the Office of the Dean of Science. Students should seek this advice by the time they have completed 60 hours of credit toward a degree. A degree in the Department of Biological Sciences provides excellent preparation for postgraduate study in a number of professions related to biology. While a degree in the Biological Sciences is not required for admission to professional schools and postgraduate programs, the following academic backgrounds are strongly recommended:

1. **Medicine, Dentistry, or Veterinary Medicine** - A minimum of one year of biology, two years of chemistry including one year of organic chemistry, one year of physics, and one semester of calculus are required for admission to most professional schools. ABS in Microbiology or Biological Sciences (Biomedical Track option) provides an excellent overall preparation for these careers.
2. **Physical Therapy** - The Pre-professional curriculum includes one year each of biology, chemistry, physics, and psychology; and one semester each of physiology, statistics, and technical writing. Students are strongly recommended to follow the requirements for a BS in Microbiology or Biological Sciences (Biomedical Track option) until they are admitted to the professional program. Specific requirements for the UTEP physical therapy program may be found in the *Graduate Catalog*.
3. **Fisheries, Wildlife, Forest, and Range Sciences** - The BS in Biological Sciences (Ecology/Evolutionary Biology Track option) is strongly recommended as the best preparation for careers in these fields.

Biology (BIOL)

1103 Introductory Biology Methods (0-2) (Normally offered Fall Semesters)

(🐾 BIOL 1108)

Elementary aspects of evolution, physiology, development, genetics, and ecology in plants and animals. Concurrent enrollment in BIOL 1303 is recommended. Laboratory fee required.

1104 Human Biology Laboratory (0-2) (Normally offered Spring Semesters)

Exercises and computer simulations of development, physiology, and heredity in humans. Concurrent enrollment in BIOL 1304 is recommended, but students taking this course to fulfill a Natural Science Core requirement should verify that it is on their degree plan. Laboratory fee required.

1107 Topics in the Study of Life (0-2)

(🐾 BIOL 1106)

Elementary aspects of cell structure, function, and genetics. Concurrent enrollment with BIOL 1305 recommended. Laboratory fee required.

1108 Organismal Biology (0-2)

(🐾 BIOL 1107)

Laboratory experiments and observation on plants, animals, and fungi. *Prerequisite:* BIOL 1306. BIOL 1306 may be taken concurrently with BIOL 1108.

1303 Introductory Biology (3-0)

(🐾 BIOL 1308)

Evolution and ecology, biotic diversity, and an introduction to principles of cell biology for BIS students and other non-science majors.

1304 Human Biology (3-0)

Introduction to the physiology, reproduction, development, and heredity of humans. Recommended for students in social work and other non-science majors.

1305 General Biology (3-0)

(👉 **BIOL 1306**)

A molecular approach to the principles of biology emphasizing cell biology and genetics. Prerequisite to upper level biology courses. *Prerequisites:* BIOL 1107 and MATH 0311 or an adequate score on a placement examination. BIOL 1107 may be taken concurrently with BIOL 1305.

1306 Organismal Biology (3-0)

(👉 **BIOL 1307**)

Principles of structure and function at the organismal level; survey of biodiversity in plants, animals, and fungi. *Prerequisites:* BIOL 1108 and MATH 0311 or an adequate score on a placement examination. BIOL 1108 may be taken concurrently with BIOL 1306.

2111 Human Anatomy/Physiology Lab I (0-2)

(👉 **BIOL 2101**)

Computer simulations and laboratory exercises in human anatomy and physiology with emphasis on the skeletal, muscular, and nervous systems. *Prerequisite:* BIOL 2311. BIOL 2311 may be taken concurrently with BIOL 2111. Laboratory fee required.

2113 Human Anatomy/Physiology Lab II (0-2)

(👉 **BIOL 2102**)

Computer simulations and laboratory exercises in human anatomy and physiology with emphasis on homeostatic systems. *Prerequisite:* BIOL 2313. BIOL 2313 may be taken concurrently with BIOL 2113. Laboratory fee required.

2311 Human Anatomy/Physiology I (3-0) (Normally offered in Spring semesters)

(👉 **BIOL 2301**)

Biological molecules, body organization, and correlated structure and function of the human skeletal, integumentary, muscular, and nervous systems. *Prerequisites:* BIOL 1305 - 1107 or ZOOL 2406 (or equivalent); BIOL 2111. BIOL 2111 may be taken concurrently with BIOL 2311.

2313 Human Anatomy/Physiology II (3-0) (Normally offered in Fall semesters)

(👉 **BIOL 2302**)

Correlated structure and function of the human cardiovascular, respiratory, digestive, urinary, reproductive, endocrine, and immune systems. *Prerequisites:* BIOL 1305 - 1107 or ZOOL 2406 (or equivalent); BIOL 2113. BIOL 2113 may be taken concurrently with BIOL 2313. BIOL 2311 recommended.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3119 Experimental Embryology (0-3)

Techniques and observations of development in invertebrates and vertebrates, as well as regulatory patterns of plant hormones. *Prerequisite:* BIOL 3318. BIOL 3318 may be taken concurrently with BIOL 3119. Laboratory fee required.

3318 Developmental Biology (3-0)

A study of growth, differentiation, and developmental patterns in plants and animals. *Prerequisites:* BIOL 1305-1107; BIOL 3119. BIOL 3119 may be taken concurrently with BIOL 3318.

3320 Genetics (3-0)

The nature and functions of hereditary material with emphasis on the experimental procedures and data that have led to the current concepts in genetics. *Prerequisites:* BIOL 1305-1107 and BIOL 1306-1108.

3321 Evolutionary Theory (3-0)

Development of evolutionary thought, evidences of evolution, and evolutionary processes. *Prerequisites:* BIOL 3320.

3326 Animal Ecology (3-0)

Animal population dynamics, food habits, and nutritional aspects of ecosystem study. *Prerequisite:* BIOL 3416. GEOG 1306 is recommended.

3330 Histology (2-2) (Normally offered in Summer semesters)

Survey of tissue structure at the light microscopic level, with emphasis on animal specimens and identification. Not a course in preparative technique. *Prerequisite:* ZOOL 2406 or BIOL 1306-1108 or BIOL 2311 or BIOL 2313. Laboratory fee required.

3341 Plants in Southwest Cultures (3-0)

Study of food, fiber, medicinal and dye plants utilized by Southwest cultures with an emphasis on ethnobotany. Students may be required to take a one weekend field trip. *Prerequisites:* BIOL 1306, BIOL 1108 and BOT 2410.

3414 Molecular Cell Biology (3-3)

Biochemical and ultrastructural study of cells, including gene regulation, cell signaling, membrane transport, conduction, and contraction. Includes experimental techniques of cell and molecular biology. *Prerequisites:* BIOL 1305 and BIOL 1107 and CHEM 1306 or CHEM 1408. MCR 2440 is strongly recommended. Laboratory fee required.

3416 Ecology (3-3) (Normally offered only in Spring semesters)

Interactions between populations of organisms and their environments at community and ecosystem levels. *Prerequisites:* BIOL 1306-1108 and (1) BOT 2410 or (2) ZOOL 2406 or (3) ZOOL 2466. MATH 1411 is recommended. Laboratory fee required.

3427 Desert Ecology (3-3)

Physical and biological characteristics of deserts, including behavioral and physiological adaptations of organisms to physical extremes, with emphasis on Chihuahuan Desert organisms. Field trips and research projects are required. *Prerequisites:* BIOL 1108 and BIOL 1306 or department approval.

4192 Senior Seminar (1-0)

A capstone review of basic biological principles, evaluation of student success, and preparation for postgraduate study or careers for majors in Biological Sciences and Microbiology. *Prerequisite:* Senior standing.

4195 Advanced Methods in Biology (0-3)

Advanced investigational techniques in the biological sciences, to accompany selected sections of BIOL 4395. *Corequisite:* BIOL 4395.

4198 Special Problems (0-0-2)

4298 Special Problems (0-0-4)

4398 Special Problems (0-0-6)

Laboratory research conducted by advanced students. No more than 6 hours of 4198-4398 may be counted toward graduation. *Prerequisite:* Instructor approval. Laboratory fee required.

4223 Transmission Electron Microscopy (0-4)

Techniques of analyzing cell ultrastructure. *Prerequisite:* BIOL 4322. BIOL 4322 may be taken concurrently with BIOL 4223. Laboratory fee required.

4225 Field Biology (0-6)

Collection and study of organisms under field conditions. Variable credit. No more than six hours of Field Biology may be counted toward degree. *Prerequisites:* Department approval. ZOOL 2466 recommended. Transportation fee varies according to destination of trip.

4320 Endocrinology (3-0)

Study of the effects and actions of animal hormones, the physiology of hormone control systems, and basic endocrinology research methods. BIOL 3414 or BIOL 4388 or ZOOL 4380 is recommended, but may be taken concurrently. *Prerequisites:* BIOL 1305-1107 and CHEM 1306-1408 each with a grade of "C" or better.

4322 Biological Ultrastructure Interpretation (3-0)

Explanation of the techniques of electron microscopy and interpretation of the fine structure and correlated biochemistry of viruses, prokaryotes, and eukaryotes. *Prerequisites:* BIOL 1107, BIOL 1305, and 12 hours of chemistry or department approval.

4324 Animal Behavior (3-0)

Theories and experiments that elucidate the biological basis for the behavior of animals. *Prerequisites:* BIOL 1306 and BIOL 1108, or ZOOL 2406.

4326 Bioarcheology (2-3)

Recovery, processing, and interpretation of biological material associated with prehistoric and historic humans in the New World. Laboratory fee required.

4370 History and Philosophy of Biology (3-0)

Historical and philosophical dimensions of biology, as illustrated by selected themes such as Darwin and his critics, classical experiments in biology, evolutionary epistemology, and historical controversies in biology. *Prerequisites:* BIOL 1306 and BIOL 1108.

4388 Mammalian Physiology (3-0) (Normally offered in Spring semesters)

Physiological and homeostatic mechanisms in mammals, with emphasis on cardiovascular, respiratory, renal, digestive, and endocrine systems in mammals. *Prerequisite:* BIOL 2313 or BIOL 3414. ZOOL 4181 may be taken concurrently with BIOL 4388 to fulfill upper division physiology course requirements for some degrees and programs.

4399 Ecological Biochemistry (0-0-0)

4390 Biological Practicum (U-U-b)

Practical on-the-job experience in federal, state, city-county governmental, and/or private agencies or industries. No more than 6 hours of BIOL 4390 and/or 4198 - 4398 will count toward graduation. *Prerequisites:* Senior standing, minimum of 15 advanced hours in designated subject matter areas of biological sciences necessary for job experience, and instructor approval.

4395 Topics in Biology (3-0)

Advanced study of contemporary research topics in molecular, cellular, organismic, environmental, or evolutionary biology. Topics vary according to instructor. May be repeated once for credit. *Prerequisite:* Department approval.

4428 Environmental Stressors in Ecosystems (3-3)

Study of the effects of biotic and abiotic stressors on plants and animals in terrestrial and aquatic environments, and practice of laboratory techniques used to measure such stressors. Field trips required. *Prerequisites:* ESCI 2103, CHEM 1106, CHEM 1306, and BIOL 3416. One semester of Organic Chemistry is recommended.

See the *Graduate Catalog* for graduate programs and courses.

Botany (BOT)

2410 General Botany (3-3) (Normally offered in Fall semesters)

(👉 BIOL 1411)

A general introduction to the diversity of eukaryotic autotrophs. The structure, growth, physiology, and importance of the flowering plants as the dominant land plants will be emphasized. *Prerequisites:* BIOL 1305, BIOL 1107, and MATH 1508. MATH 1508 may be taken concurrently with BOT 2410. Laboratory fee required.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3330 Comparative Plant Morphology (3-0)

Life histories, phylogenetic relationships of vascular and non-vascular plants. *Prerequisites:* BIOL 1306 and BIOL 1108, or BOT 2410.

3332 Economic Botany (3-0)

Origin and utilization of plants important to humans, with emphasis on nutritional aspects. *Prerequisites:* BIOL 1306 and BIOL 1108, or BOT 2410.

3437 Plant Taxonomy (2-4)

Characteristics, classification, and phylogenetic studies of native and ornamental vegetation. *Prerequisite:* BOT 2410. Laboratory fee required.

Microbiology (MICR)

2330 Microorganisms and Disease (3-0)

(👉 BIOL 2320)

A survey of microorganisms important to humans with emphasis on pathogens. Diagnostic procedures for pathogenicity of and immune responses to the more common pathogens. A terminal course not to be used as a prerequisite for any other course. A course for non-majors, including those in the nursing program. *Prerequisites:* BIOL 1305 and BIOL 1107.

2440 General Microbiology (3-3)

(👉 BIOL 2421)

Survey of microorganisms and their characteristics; aspects of biochemical cytology, physiology, and genetics; introduction to applied microbiology. Techniques used in the study of microorganisms. *Prerequisites:* BIOL 1305 and BIOL 1107; CHEM 1306 and CHEM 1106; MATH 1508. CHEM 1306, CHEM 1106, and MATH 1508 may be taken concurrently with MCR 2440. Laboratory fee required.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3328 Microorganisms in Ecosystems (3-0)

The relationship between microorganisms (viruses, bacteria, fungi, algae, and protozoa) and their environment (air, water and soil microbiology decomposition, and pollution). *Prerequisites:* CHEM 1306, CHEM 1106. MCR 2440 recommended.

3443 Pathogenic Microbiology (3-3) (Offered only in Spring semesters)

Epidemiology, pathogenicity, and host response to disease-producing microorganisms. Diagnostic procedures for isolating and identifying pathogens. *Prerequisite:* MCR 2440. Laboratory fee required.

3445 Microbial Physiology (3-3) (Offered only in Fall semesters)

Biochemical cytology, growth, nutrition, metabolism, and genetics of microorganisms. Techniques for studying physiological activities of microbial cells. *Prerequisites:* MCR 2440, CHEM 3325, and CHEM 3125. Laboratory fee required.

3449 Prokaryotic Molecular Genetics (3-3) (Offered only in Spring semesters)

Molecular biology of prokaryotes. Transfer of genetic information, structure and organization of the prokaryotic genome, regulation of gene expression, and genetic engineering. *Prerequisite:* BIOL 3320 or MCR 2440. Laboratory fee required.

4329 Epidemiology (3-0)

Distribution and determinants of health-related states or events in specific populations and their applications to the control of health problems. Basic concepts and methodologies used in epidemiological research are also covered. MCR 3443 is recommended, and may be taken concurrently. *Prerequisites:* MCR 2440 and CHEM 1306-1408 each with a grade of "C" or better.

4351 General Virology (3-0)

Biochemistry and virus-host interactions of animal, bacterial, insect, and plant viruses. *Prerequisites:* MCR 2440 or MCR 4152, and BIOL 3320. MCR 3445 also recommended.

4355 Medical Mycology (3-0)

A study of the fungi of medical importance. *Prerequisite:* MCR 2440.

4453 Immunology (3-3) (Offered only in Fall semesters)

Antigens and antibodies, humoral and cellular immunity, transplantation, complement, and diseases of the immune system. *Prerequisites:* MCR 2440, CHEM3325, and CHEM3125. Laboratory fee required.

Zoology (ZOOL)

2406 Vertebrate Zoology (3-3) (Normally offered in Spring semesters)

( BIOL 2428)

A survey of basic classification, functional systems, and biology of vertebrates. *Prerequisites:* BIOL 1305 and BIOL 1107, BIOL 1306 and BIOL 1108, and MATH 1508. MATH 1508 may be taken concurrently with ZOOL 2406. Laboratory fee required.

2466 Invertebrate Zoology (3-3)

Survey and laboratory exercises concerning the invertebrates with emphasis on phylogeny. *Prerequisites:* BIOL 1305 and BIOL 1107, and BIOL 1306 and BIOL 1108. Laboratory fee required.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3464 Medical Parasitology (3-3) (Normally offered in Fall Semesters)

A survey of medically important parasites. *Prerequisite:* ZOOL 2406, or BIOL 1306 and BIOL 1108. Laboratory fee required.

3468 Entomology (3-3)

Evolution, phylogeny, ecology, physiology, morphology, and systematics of insects. Field trips and an insect collection are required. *Prerequisites:* BIOL 1306 and BIOL 1108.

4155 Vertebrate Paleontology Techniques (0-3)

Collection, preservation, identification, and curation of vertebrate fossils. This course is identical to GEOL 4155. *Prerequisite:* ZOOL 4354. ZOOL 4354 may be taken concurrently with ZOOL 4155. Lab fee required.

4157 Advanced Vertebrate Paleontology Techniques (0-3)

Collection, preservation, identification, and curation of vertebrate fossils. This course is identical to GEOL 4157. *Prerequisite:* ZOOL 4356. ZOOL 4356 may be taken concurrently with ZOOL 4157. Laboratory fee required.

4181 Vertebrate Physiology Methods (0-3) (Normally offered in Spring semesters)

Techniques and instrumentation used in the study of vertebrate function. *Prerequisites:* CHEM 1306-1106 or CHEM 1408, and (1) BIOL 1306-1108, (2) BIOL 2313-2113, (3) BIOL 3414, or (4) ZOOL 2406. ZOOL 4181 may be taken concurrently with ZOOL 4380 or with ZOOL 4388, and may be a co-requirement with one of these lecture courses for some programs/degrees. Laboratory fee required.

4354 Paleozoic and Mesozoic Vertebrate Paleontology (3-0)

Study of evolution, biologic history, biostratigraphy, and classification of the Paleozoic and Mesozoic vertebrates with emphasis on the lower vertebrates and an introduction to early mammalian development. This course is identical to GEOL 4354. *Corequisite:* ZOOL 4155. *Prerequisite:* (1) GEOL 1302-1102, (2) ZOOL 2406, (3) BIOL 1306-1108, or (4) department approval.

4356 Cenozoic Vertebrate Paleontology (3-0)

Study of the evolution, biologic history, biostratigraphy, and classification of the Cenozoic vertebrates with major emphasis on the mammals. This course is identical to

Study of the evolution, biologic history, biogeography, and classification of the Cenozoic vertebrates with major emphasis on the mammals. This course is identical to GEOL 4356. *Prerequisites:* ZOO 4157 and (1) GEOL 1302-1102, (2) ZOO 2406, (3) BIOL 1306-1108, or (4) department approval. ZOO 4157 may be taken concurrently with ZOO 4356.

4380 Vertebrate Physiology (3-0) (Normally offered in Spring semesters)

Vertebrate systemic functions emphasizing nerve action and movement, endocrinology and metabolic controls, osmoregulation, cardio-physiology, and respiration.
Prerequisites: CHEM 1306-1106, ZOO 4181, and (1) BIOL 3414, (2) ZOO 2406, or (3) BIOL 1306-1108. ZOO 4181 may be taken concurrently with ZOO 4380.

4384 Neurobiology (3-0)

Neural organization in animals. Evolution of nervous systems in different phyla, with emphasis on network and neurochemical mechanisms for information processing.
Prerequisite: ZOO 2406, ZOO 4380, or BIOL 1306 and BIOL 1108.

4476 Fish, Amphibians, and Reptiles (3-3)

Classification and natural history of fish, amphibians, and reptiles.

Prerequisite: ZOO 2406, or BIOL 1306 and BIOL 1108. Laboratory fee required.

4478 Birds and Mammals (3-3)

History of the study, literature, and biology of birds and mammals.

Prerequisite: ZOO 2406, or BIOL 1306 and BIOL 1108. Laboratory fee required.

✦ Indicates Texas Common Course Number



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Chemistry

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CHAIRPERSON: Jorge Gardea-Torresdey
PROFESSORS EMERITI: Harold Alexander, William C. Herndon, Winston D. Lloyd
PROFESSORS: Chianelli, Davis, Dirk, Eastman, Ellzey, Gardea-Torresdey, Pannell
ASSOCIATE PROFESSOR EMERITUS: Joseph Scruggs
ASSOCIATE PROFESSORS: Becvar, Gardner, Michael, Salvador, Saupe
ASSISTANT PROFESSORS: Bernal, Lee, Martinez, Narayan, Noveron

The Department of Chemistry offers both a BS degree and a BA degree in Chemistry. Both degrees include the opportunity to obtain a concentration in Secondary Teacher Certification. The BS degree in Chemistry is certified by the American Chemical Society if the course of study is 44 semester hours specified below, plus a minor, three semesters of calculus, and two semesters of calculus-based physics.

BS in Chemistry

The requirement to obtain a BS in Chemistry consists of the general College of Science requirements plus a minor and the following specific requirements:

Major (44 semester hours including 32 semester hours of upper-division courses): CHEM 1305-CHEM 1105, CHEM 1306-CHEM 1106, CHEM 2101, CHEM 2261-CHEM 2161, CHEM 3310-CHEM 3110, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3351-CHEM 3151, CHEM 3352-CHEM 3152, CHEM 4211-CHEM 4212, CHEM 4365, CHEM 4330 or CHEM 4332

Minor: If the minor is biology, BIOL 1305-BIOL 1107, BIOL 1306-BIOL 1108, and BIOL 3320 are required, plus additional course work to meet the minimum standard of 18 semester hours. Other minors are available including secondary education.

Additional Science: PHYS 2420 and PHYS 2421 are required. If physics is the minor, the additional science requirement may be met by BIOL 1305-BIOL 1107, BIOL 1306-BIOL 1108; or GEOL 1313-GEOL 1103 (or GEOL 1311), GEOL 1314-GEOL 1104 (or GEOL 1312).

Other: MATH 1312 and MATH 2313 are required.

Secondary Education Minor

Science Certification:

Major: CHEM 1305-CHEM 1105, CHEM 1306-CHEM 1106, CHEM 2101, CHEM 2261-CHEM 2161, CHEM 3310-CHEM 3110, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3351-CHEM 3151, CHEM 3352-CHEM 3152, CHEM 4330 or CHEM 4332

Minor: This concentration requires a minor in secondary education: EDPC 3300 (Requires Admittance into Teacher Education), SCED 3311, SCED 3317, RED 3342, SCED 4368 (science), and SCED 4691 (Internship).

Other: BIOL 1305-1107, BIOL 1305-1108, GEOL 1311, and PHYS 2420, PHYS 2421, MATH 1312, and MATH 2313 are required.

Physical Science Certification:

Major: CHEM 1305-CHEM 1105, CHEM 1306-CHEM 1106, CHEM 2101, CHEM 2261-CHEM 2161, CHEM 3310-CHEM 3110, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3351-CHEM 3151, CHEM 3352-CHEM 3152, CHEM 4211-CHEM 4212, CHEM 4365, CHEM 4330 or CHEM 4332

Minor: This concentration requires a minor in secondary education: EDPC 3300 (Requires Admittance into Teacher Education), SCED 3311, SCED 3317, RED 3342, SCED 4368 (science), and SCED 4691 (Internship).

Other: MATH 1312, MATH 2313, PHYS 2420, PHYS 2421, PHYS 3323, and PHYS 4355 are required.

BA in Chemistry

Students should refer to the College of Liberal Arts section of this catalog for the general requirements for the BA degree. Secondary Teaching Certification in chemistry may also be obtained through these Colleges. A minor in the College of Liberal Arts requires nine semester hours of upper-division course work. The major may be selected from two concentrations:

General: The specific courses required are (35 semester hours in chemistry including 23 semester hours of upper-division courses) CHEM 1305*-CHEM 1105*, CHEM 1306*-CHEM 1106*, CHEM 3310-CHEM 3110, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3351-CHEM 3151, MATH 1411*, MATH 1312, MATH 2313, PHYS 2420, PHYS 2421, plus 9 semester hours selected from CHEM 2101, CHEM 2261-2161, CHEM 3352-3152, CHEM 4131, CHEM 4211, CHEM 4212, CHEM 4328, CHEM 4330, CHEM 4332, CHEM 4362, CHEM 4365, CHEM 4176, CHEM 4376, or CHEM 4380. (* may be counted in the University core)

Pre-Medical/Pre-Dental: The specific courses required are (35 semester hours in chemistry including 23 semester hours of upper-division courses) CHEM 1305*-CHEM 1105*, CHEM 1306*-CHEM 1106*, CHEM 3310-CHEM 3110, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3351-CHEM 3151, CHEM 4330-4131, MATH 1411*, MATH 1312, MATH 2313, PHYS 2420, PHYS 2421, plus 9 semester hours selected from CHEM 2101, CHEM 2261-2161, CHEM 3352-3152, CHEM 4211, CHEM 4212, CHEM 4328, CHEM 4332, CHEM 4362, CHEM 4365, CHEM 4176, CHEM 4376, or CHEM 4380. (* may be counted in the University core)

Minor in Chemistry

A minor in chemistry requires CHEM 1305-CHEM 1105, CHEM 1306-CHEM 1106, and an additional minimum of 11 upper-division hours. Majors in mathematics or physics may select from CHEM 2261-CHEM 2161, CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 3310-CHEM 3110, CHEM 3351-CHEM 3151, or CHEM 3352-CHEM 3152. Other majors may select from CHEM 3321-CHEM 3221, CHEM 3322-CHEM 3222, CHEM 4330, or CHEM 4332.

Five-Year BS-MS Program

The curriculum for the BS degree in Chemistry can be completed in three and one-half years. After admission to the Graduate School of the University, it is possible to obtain the MS degree at the end of the 5th year of study in chemistry. Qualified students should consult their academic advisor about the course of study and regarding various forms of financial assistance obtainable through this program.

BS Degree with Departmental Honors in Chemistry

A candidate for Departmental Honors in chemistry will have demonstrated ability in chemistry, will have maintained a GPA of 3.0 by the end of the junior year, and will maintain this average until graduation. The main requirement for Departmental Honors will be the satisfactory completion of an Honors Thesis based on research in chemistry. Usually this research will be carried out under the direction of a member of the faculty of the Department of Chemistry or a suitable faculty member from another department of the University. The satisfactory completion of the Honors Thesis will be judged by the Thesis-Research Director in conjunction with the Departmental Honors Committee. Other faculty and outside referees may be consulted if it is deemed to be appropriate to do so.

The candidate for Departmental Honors must request approval of candidacy during the second semester of the junior year. The Department of Chemistry reserves the right to accept or not accept a qualified student taking into consideration the number of applicants, the number of available faculty, and the competence of an individual student. The accepted honors candidate will enroll in CHEM 4176 or CHEM 4376 during both semesters of the senior year and will have accumulated a total of 6 hours of CHEM 4176 and CHEM 4376 credit on completion of the honors program. Other regulations, procedures, and dates for use by honors candidates are available from the Chairperson, Department of Chemistry.

Advising/Placement

All chemistry majors are required to consult with and have their enrollment approved by their department advisor before every enrollment.

All entering freshman students with at least one year of high school chemistry with an "A" or "B" in chemistry may take an Achievement Examination given by the department. If a student scores 80 or above, he or she will be given credit for CHEM 1305.

An entering freshman student with two years of high school chemistry with grades of "A" or "B" may take Achievement Examinations given by the department over CHEM 1305 and 1306. If the score is 80 or above, credit for CHEM 1305 and 1306 will be given.

Chemistry (CHEM)

1105 Laboratory for Chemistry 1305 (0-3)

(👉 CHEM 1111)

Corequisite: CHEM 1305, if required in student's degree plan. Laboratory fee required.

1106 Laboratory for Chemistry 1306 (0-3)

(👉 CHEM 1112)

Corequisite: CHEM 1306 if required in student's degree plan. Laboratory fee required.

1305 General Chemistry (2-2)

(👉 CHEM 1311)

The basic laws and theories of chemistry; characterization of the elements and their most important compounds. For students who need a foundation for work in advanced chemistry and related sciences. *Prerequisites:* MATH 1508, or MATH 1411, or a math SAT score of at least 600. Corequisite: CHEM 1105, if required in student's degree plan. MATH 1508 may be taken concurrently with CHEM 1305.

1306 General Chemistry (2-2)

(👉 CHEM 1312)

A continuation of CHEM 1305. Includes substantial coverage of chemical kinetics and thermodynamics. *Prerequisites:* CHEM 1305, CHEM 1105, and MATH 1508, or MATH 1411, or a math SAT score of at least 600. Corequisite: CHEM 1106, if required in student's degree plan.

1407 Introductory Chemistry (3-3)

(👉 CHEM 1405)

Basic concepts relating to composition, structure, and transformation of matter. Satisfies the chemistry requirement for nursing. Students who need a foundation for work in advanced chemistry and related sciences or engineering fields should take CHEM 1305, CHEM 1105, CHEM 1306, and CHEM 1106. *Prerequisite:* MATH 0311 or an adequate score on a placement examination. MATH 0311 may be taken concurrently with CHEM 1407. Laboratory fee required.

1408 Introductory Chemistry (3-3)

(👉 CHEM 1407)

A continuation of CHEM 1407. Includes surveys of organic chemistry and biochemistry. *Prerequisites:* MATH 0311 (or an adequate score on a placement examination) and CHEM 1407. CHEM 1407 may be taken concurrently with CHEM 1408. Laboratory fee required.

2101 Molecular Modeling and Chemical Information (0-3)

Introduction to computational methods for molecular visualization, structure optimization, and modeling; includes strategies for chemical data analysis and obtaining

chemical information from the Internet and conventional sources. *Prerequisites:* CHEM 1306, CHEM 1106, and department approval.

2161 Laboratory for CHEM 2261 (0-3)

Corequisite: CHEM 2261. Laboratory fee required.

2261 The Periodic Table (2-0)

A survey course that expounds the principles of periodicity in the descriptive chemistry of the elements. Among the areas covered will be the alkali and alkaline earth metals, the carbon/silicon/germanium/tin and lead group, the chemistry of nitrogen, phosphorus, and the halogens. Where possible, pertinent technical applications of the elements, and materials derived from them, will be presented, e.g., medicinal, inorganic polymer, and semi-conductor applications. *Prerequisites:* CHEM 1306 and CHEM 1106.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3110 Laboratory for Chemistry 3310 (0-4)

Corequisite: CHEM 3310. Laboratory fee required.

2124 Laboratory for Chemistry 2324 (0-3)

Corequisite: CHEM 2324. Laboratory fee required.

2125 Laboratory for Chemistry 2325 (0-3)

Corequisite: CHEM 2325. Laboratory fee required.

2324 Organic Chemistry (2-2)

A study of the fundamental types of carbon compounds. Intended for students not requiring the detailed comprehensive courses specified for the BS degree in Chemistry. May not be counted in addition to CHEM 3321. *Prerequisites:* CHEM 1306 and 1106 *Corequisite:* CHEM 2124.

2325 Organic Chemistry (3-0)

A continuation of CHEM 2324 with emphasis on organic compounds and their reactions in living systems. May not be counted in addition to CHEM 3322. *Prerequisites:* CHEM 2324. *Corequisite:* CHEM 2125.

3151 Laboratory for Chemistry 3351 (0-4)

Corequisite: CHEM 3351, if required in student's degree plan. Laboratory fee required.

3152 Laboratory for Chemistry 3352 (0-4)

Corequisite: CHEM 3352, if required in student's degree plan. Laboratory fee required.

3221 Laboratory for Chemistry 3321 (0-6)

Corequisite: CHEM 3321. Laboratory fee required.

3222 Laboratory for Chemistry 3322 (0-6)

Corequisite: CHEM 3322. Laboratory fee required.

3310 Analytical Chemistry (3-0)

Quantitative measurements and calculations, chemical equilibrium as applied to analyses and separations. This course is designed for chemistry majors. *Prerequisites:* CHEM 3322 or CHEM 2325, MATH 2313, and PHYS 2421. *Corequisite:* CHEM 3110. MATH 2313 may be taken concurrently with CHEM 3310.

3321 Organic Chemistry (2-2)

A study of chemical bonding and structure in organic molecules, functional group synthesis and reactions, reaction mechanisms, nomenclature, stereochemistry, and isomerism. Intended for chemistry majors and others requiring a comprehensive approach to organic chemistry. May not be counted in addition to CHEM 2324. *Prerequisites:* CHEM 1306 and CHEM 1106. *Corequisite:* CHEM 3221.

3322 Organic Chemistry (3-0)

A continuation of CHEM 3321. Intended for chemistry majors and others requiring a comprehensive approach to organic chemistry. May not be counted in addition to CHEM 3325. *Prerequisites:* CHEM 3321 and CHEM 3221. *Corequisite:* CHEM 3222.

3351 Physical Chemistry (3-0)

Chemical thermodynamics. *Prerequisites:* CHEM 1306 and CHEM 1106, MATH 2313, and PHYS 2421. *Corequisite:* CHEM3151, if required in student's degree plan. MATH 2313 may be taken concurrently with CHEM3351.

3352 Physical Chemistry (3-0)

Quantum mechanics and other advanced topics. *Prerequisites:* CHEM 1306, CHEM 1106, PHYS 2421, and MATH 2313. *Corequisite:* CHEM3152 if required in student's degree plan. MATH 2313 may be taken concurrently with CHEM3352.

4131 Laboratory for Biochemistry (0-4)

Provides laboratory practical experience in techniques of biochemical assay and analysis. *Corequisite:* Concurrent enrollment in CHEM4330 or CHEM4332 and department approval. Laboratory fee required.

4165 Laboratory for Inorganic Chemistry (0-4)

Provides laboratory practical exposure for students taking Inorganic Chemistry 4365. *Corequisite:* CHEM4365. Laboratory fee required.

4176 Introduction to Research (0-0-3)

4376 Introduction to Research (0-0-9)

Credit will be granted only upon completion of research in the senior year on the recommendation of the head of the Chemistry Department. May be repeated for credit up to a total of 6 credit hours of CHEM4176 and CHEM4376. All credit accrued will be counted as elective hours only. *Prerequisite:* Department approval. Fees required.

4211 Instrumental Methods of Analytical Chemistry (2-0)

A study of the more important optical and electrical methods of chemical analysis. *Prerequisites:* CHEM3322. *Corequisites:* CHEM3352 and CHEM4212.

4212 Laboratory for Chemistry 4211 (0-6)

Corequisite: CHEM4211. Laboratory fee required.

4328 Advanced Topics in Organic Chemistry (3-0)

Selected topics at the undergraduate level which are not usually covered in introductory courses in organic chemistry. Course may be repeated for credit when topics vary. *Prerequisite:* CHEM3322 or CHEM2325.

4330 Biochemistry: Structure and Function (3-0)

A study of the major classes of biomolecules, including amino acids, proteins, nucleic acids, carbohydrates and lipids with introductions to biochemical techniques and enzyme kinetics. *Prerequisite:* CHEM3322 or CHEM2325.

4332 Biochemistry: Dynamics and Information (3-0)

Investigation of enzyme function, bioenergetics, metabolism, and the molecular aspects of replication, transcription, and translation. *Prerequisite:* CHEM3322 or CHEM 2325. CHEM4330 is recommended but not required as a prerequisite.

4362 Structure of Matter (3-0)

Introduction to quantum theory; atomic and molecular structure; atomic and molecular spectra; chemical bonding. *Prerequisites:* (1) PHYS 2421 and CHEM3352 or (2) department approval.

4365 Inorganic Chemistry (3-0)

Principles of molecular structure and chemical reactivity of inorganic compounds; coordination chemistry and introduction to ligand field theory; kinetics and mechanisms of inorganic reactions; organometallic compounds; chemistry of nonmetals and physical methods in inorganic chemistry. *Prerequisites:* CHEM3322 and CHEM3352.

4380 Polymer Chemistry (3-0)

A survey of high polymers, including synthesis, characterization, and structure-property relationships. Considers step and chain polymerization, stereochemistry, and copolymerization. Also, thermally stable polymers, conducting and photoactive polymers. *Prerequisite:* CHEM3322 or CHEM2325.

See the *Graduate Catalog* for graduate programs and courses.

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Geological Sciences

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CHAIRPERSON: Diane I. Doser
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PROFESSORS: Anthony, Doser, Jarvis, Miller, Pavis, Pingitore, Serpa
ASSOCIATE PROFESSORS: Gill, Goodell, Langford, Velasco
ASSISTANT PROFESSORS: Borrok, Ellis, Hurtado, B. Konter, J. Konter

The department of Geological Sciences offers both the BA and BS degrees in Geological Sciences and the BS in Geophysics.

Bachelor of Science in Geological Sciences

The requirement to obtain the BS in Geological Sciences consists of the general College of Science requirements plus the following specific requirements:

Major: GEOL 1313 - GEOL 1103 (or GEOL 1311), GEOL 1314 - GEOL 1104 (or GEOL 1312), GEOL 2411, GEOL 3412, GEOL 3315, GEOL 3420, GEOL 3423, GEOL 3425, and GEOL 4665 and three additional upper division semester hours in geology or geophysics.

Minor: No minor is required in this degree program. Students are encouraged to complete 18 semester hours (including at least 6 semester hours of upper division courses) in a field of interest outside the Department of Geological Sciences. Suggested fields include, but are not restricted to Biological Sciences, Chemistry, Environmental Science, Mathematical Sciences, or Physics. Or, students may choose to complete a Distributed Minor, as described below.

Other: CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106, MATH 1312, PHYS 2420 and PHYS 2421, and PHYS 2230 are required.

Bachelor of Science in Geophysics

The requirement to obtain the BS in Geophysics consists of the general College of Science requirements plus the following specific requirements:

Major: (a minimum of 47 semester hours including 35 semester hours of upper-division course work) GEOL 1313 - GEOL 1103 (or GEOL 1311), GEOL 1314 - GEOL 1104 (or GEOL 1312), GEOL 2411, GEOL 3315, GEOL 3412, GEOL 3420, GEOL 3423, GEOL 3425, and upper-division electives in geology or geophysics to total 33 semester hours. MATH 1508 and CHEM 1305-1105 are required. Four (4) other science credits must be earned from the following courses: BIOL 1305 - BIOL 1107, PHYS 1403 (or PHYS 2420).

Other: CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; MATH 1312, MATH 2313, MATH 2326, and MATH 4336, PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3351 and PHYS 4348 are required.

Bachelor of Arts in Geological Sciences

Students should refer to the College of Liberal Arts section of this catalog for the general requirements for the BA degree. The specific courses required for the major are (a minimum of 33 semester hours, including 20 semester hours of upper-division courses) GEOL 1313-GEOL 1103 (or GEOL 1311), GEOL 1314-GEOL 1104 (or GEOL 1312), GEOL 2411, GEOL 3315, GEOL 3412, GEOL 3420, GEOL 3423, GEOL 3425, and upper-division electives in geology or geophysics to total 33 semester hours. MATH 1508 and CHEM 1305-1105 are required. Four (4) other science credits must be earned from the following courses: BIOL 1305 - BIOL 1107, PHYS 1403 (or PHYS 2420).

Minor in Geology

A minor in geology requires GEOL 1313-GEOL 1103 (or GEOL 1311), GEOL 1314 - GEOL 1104 (or GEOL 1312), GEOL 2411 or GEOL 3412, and additional upper-division geology or geophysics courses to bring the total to 18 semester hours.

Minor in Geography

A minor in Geography requires GEOG 1306-GEOG 1106, GEOG/SOCI/ANTH 1310, GEOL 4385 or SOCI/ANTH 3332 and three courses chosen from the following list: GEOG 3306-GEOG 3107, GEOG 3312, GEOG 3341, GEOG 4307, GEOG 4310/ SOCI/ANTH 4313, GEOG 4366, GEOL 3330, GEOL 3350, GEOL 3412, GEOL 4385, GEOP 4336, POLS 3332, SOCI 3300/ANTH 3303, SOCI 3315/ANTH 3315, SOCI 3317/ANTH 3319, SOCI/ANTH 3320, SOCI/ANTH 3321, SOCI/ANTH 3361, SOCI/ANTH 4308, SOCI/ANTH/GEOG 4312.

Distributed Minor

A distributed minor is available for Bachelor of Science in Geological Science majors only. It requires the following courses: CHEM 1305 - 1105 and CHEM 1306 - 1106, MATH 1312, PHYS 2420, PHYS 2421, and PHYS 2230, and at least 6 semester hours of upper-division classes in one of the following disciplines: Anthropology, Biological Sciences, Chemistry, Environmental Science, Mathematics, Physics, or Statistics.

"C" Rule

Students must earn a grade of "C" or better in all courses taken within the Department of Geological Sciences that are used to satisfy the above Geology and Geophysics degree requirements. Continuation in sequence courses (such as GEOL 3315) after receiving a "D" in one of these courses is permitted with permission of the instructor. A student receiving a grade of "D" in a required course must repeat the course at its earliest offering. Students receiving consecutive grades of "D" will not be allowed to continue sequence courses until grades of "C" or better have been earned in the appropriate courses. A minimum GPA of 2.0 must be achieved in required science courses taken outside the Geological Sciences department.

Departmental Research

All undergraduate students are encouraged to complete a research experience. The preferred option is completion of a Senior Thesis (GEOL 4399). However, an appropriate Directed Study (GEOL 4166 - GEOL 4366 or GEOP 4167 - GEOP 4367) or Undergraduate Research (GEOL 4189 - GEOL 4389) course also fulfills this requirement.

Departmental Honors in Geology or Geophysics

The main requirements for Departmental Honors in Geology or Geophysics will be the satisfactory completion of a Senior Thesis based upon research in geology or geophysics, maintenance of a 3.25 GPA or better until graduation, and the presentation of a seminar on the thesis topic. The research will be carried out under the direction of a member of the faculty of the Department of Geological Sciences. Satisfactory completion of the Senior Thesis will be judged by the thesis-research director and the Departmental Honors Committee. Policies and procedures of the Honors degree will be administered by the Departmental Honors Committee. Departmental Honors may be awarded with or without other University honors.

Geography (GEOG)

1106 Laboratory for Geography 1306 (0-2)

Required for students who select the Geography option to fulfill the natural science component of the University Core Curriculum. It is optional to all other students. GEOL 1106 may be taken concurrently with GEOG 1306. Laboratory fee required.

1306 Physical Geography (3-0)

(👉 GEOG1301)

Introduction to features and processes of the atmosphere, hydrosphere, biosphere, and lithosphere, with emphasis on spatial (distribution) patterns, and interactions between the four earth realms and human activities. The course culminates in a discussion of global environmental regions. Minors should take GEOG 1106 concurrently.

1310 Cultural Geography (3-0)

(👉 GEOG1302)

Introduction to cultural elements, their spatial distribution, and their interrelationship to the physical environment. This course is the same course as ANTH 1310 and SOCI 1310.

General Prerequisite: Junior standing for all upper-division courses.

3107 Weather and Climate Laboratory (0-2)

Practical exercises, experiments and discussion related to the observation, analysis and interpretation of Earth's atmosphere and meteorological phenomena. *Prerequisite:* GEOG 3306 with a grade of "C" or better or concurrent enrollment.

3306 Weather and Climate (3-0)

Study of the components of weather, weather processes, and measurement, climate elements and control factors; geographic classification of climates and natural vegetation on the earth's surface. *Prerequisite:* GEOG 1306, or GEOL 1303, or GEOL 1311 or GEOL 1301 or GEOL 1313 or instructor approval.

3312 Geography of Latin America (3-0)

Study of the physical and cultural features which characterize the economic, social, and political geography of Latin America. Prerequisites: GEOG 1306, GEOG 1310 and department approval

3341 Topics in Geography (3-0)

Advanced study of contemporary research topics in physical or cultural geography. Topics vary according to instructor. May be repeated for credit when topics vary. *Prerequisite:* Department approval.

4307 Geography of Arid Lands (3-0)

A study of the physical complexes of the world's dry regions. Salient factors emphasized include climate, landforms, water, soils, natural vegetation and various aspects of human occupancy. *Prerequisite:* GEOG 1306 or GEOG 1310 or GEOL 1303 or GEOL 1311 or GEOL 1313 or department approval. GEOG 3306 is recommended.

4310 Advanced Spatial Analysis (3-0)

This course will be problem-based and the centerpiece will be a semester long GIS research project that each student will prepare. This will include the definition of a problem amenable to spatial analysis, acquisition of appropriate data sources, organization of the data layers in GIS, spatial analysis of the database, and a written and oral presentation of the results. *Prerequisite:* GEOL 4385 or SOCI/ANTH 3332 with a grade of "C" or better.

4312 Thinking Spatially (3-0)

Provides an appreciation of geographical perspectives on space and place. Students will become familiar with geographical theory and methods, which they will apply to the analysis of important social and natural phenomena, such as health and disease, crime, environmental hazards, urbanization and development, and long-term social and environmental change. This course is the same course as SOCI 4312/ANTH 4312.

4366 Directed Study in Geography (0-0-3)

Supervised individual study of problems in geography. *Prerequisite:* Department approval. This course is the same course as SOCI 4313/ANTH 4313.

Geology (GEOL)

1103 Laboratory for Geology 1313 (0-2)

(👉 GEOL 1103)

Concurrent enrollment in GEOL 1313 suggested. Laboratory fee required.

1104 Laboratory for Geology 1314 (0-2)

(👉 GEOL 1104)

Prerequisite: GEOL 1103. Concurrent enrollment in GEOL 1314 suggested. Laboratory fee required.

1311 Principles of Earth Sciences (2-2)

(👉 GEOL 1301)

Study of the earth as a planet. A survey of the physical processes operating in the atmosphere, lithosphere, and biosphere. Includes an introduction to meteorology, physical geology, soils, and vegetation. Concurrent laboratory enrollment is required. A student may not receive credit for both GEOL 1311 and GEOL 1313. Laboratory fee required.

1312 Principles of Earth Sciences (C) (2-2)

(👉 GEOL 1302)

Study of the earth as a planet. A survey of earth history as interpreted from and exhibited by plants, animals, rocks, and minerals; a study of the earth in space; a survey of the physical processes operating in the hydrosphere. Includes an introduction to historical geology, astronomy, physiography, and oceanography. Concurrent laboratory enrollment is required. A student may not receive credit for both GEOL 1314 and GEOL 1311. *Prerequisite:* GEOL 1311 with a grade of "C" or better or GEOL 1303 with a grade of "C" or better. Laboratory fee required.

1313 Introduction to Physical Geology (3-0)

(👉 GEOL 1303)

An introductory study of the earth's composition, structure, and internal and external processes. Concurrent enrollment in laboratory (GEOL 1103) suggested but not required. A student may not receive credit for both GEOL 1313 and GEOL 1311.

1314 Introduction to Historical Geology (3-0)

(👉 GEOL 1304)

An integrated study of the geologic history of the earth with a consideration of the history of life as documented by the fossil record. Concurrent enrollment in laboratory (GEOL 1104) suggested but not required. A student may not receive credit for both GEOL 1314 and GEOL 1312. *Prerequisite:* GEOL 1313 with a grade of "C" or better or GEOL 1301 with a grade of "C" or better.

2411 Mineralogy and Petrology (3-3)

(👉 GEOL 2409)

Principles of crystal chemistry, phase equilibrium, and crystallography of common rock-forming minerals. Hand sample and thin section investigation. Field trips. *Prerequisite:* CHEM 1305 with a grade of "C" or better. Laboratory fee required.

General Prerequisite: Junior standing for all upper-division courses. All required lower-division courses in the major should be completed with a "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; consult the *Graduate Catalog* for the listing of these courses.

3315 Igneous and Metamorphic Petrology (2-3)

Petrogenesis of igneous and metamorphic rocks, including the thermodynamics and physical properties of minerals and metals and the petrography of samples in thin-section. *Prerequisites:* GEOL 2411 and CHEM 1305. MATH 1411 recommended. Laboratory fee required.

3321 Geology for Engineers (2-3)

The principles of physical geology and their practical applications to civil engineering. This course cannot be counted as a required upper-level course in Geology. *Prerequisite:* Junior standing in engineering or instructor approval.

3350 Oceanography (3-0)

Introduction to submarine geology, physical and chemical oceanography, marine organisms, marine resources, shore processes, and methods of marine technology. Students whose degree plans require GEOL 4665 may use this course for elective credit only. *Prerequisite:* GEOL 1304 or GEOL 1312, or GEOL 1301 or GEOL 1313, or GEOL 3321.

3412 Geoscience Processes (3-3)

Field-oriented, problem-solving studies emphasizing field identification of rocks; study of landforms and processes that create them; use of maps, aerial photographs, and satellite imagery. Emphasis on developing observational and analytical skills and use of multiple working hypotheses. *Prerequisite:* Junior standing in Geology or permission of instructor

3420 Invertebrate Paleontology (3-3)

A survey of the classification, paleoecology, and stratigraphic distribution of fossil invertebrates. *Prerequisites:* (1) GEOL 1314 and GEOL 1104, or (2) GEOL 1312, or (3) instructor approval. Laboratory fee required.

3423 Structural Geology (3-6)

An introduction to the recognition, description, and analysis of deformed rocks, spanning the spectrum from microscopic structures to mountain belts and plate tectonics. Geometric and stereographic analysis of map-scale structures. Introduction to stress, strain, and constitutive laws for rocks. Processes of rock deformation including folding, fracturing, and grain-scale processes. Correlation of structural styles with tectonic environments. *Prerequisites:* (1) GEOL 1313 - 1103 and GEOL 1314 - 1104, and GEOL 3412, or (2) GEOL 1311 and GEOL 1312, and GEOL 3412, or (3) instructor approval. PHYS 2420 recommended. Fees required.

3425 Sedimentology and Stratigraphy (3-3)

Study of sedimentary processes, environments, and deposits, including fundamental concepts of stratigraphy and sequence stratigraphy. Ancient deposits and modern analogs are examined in the field. Laboratory will be divided between field trips and in-lab activity to introduce techniques for the study of sediments and sedimentary rock sequences. *Prerequisites:* GEOL 2411 and GEOL 3412, or instructor approval. Transportation fee required.

4166 Directed Study, Geology (0-0-1)

4266 Directed Study, Geology (0-0-2)

4366 Directed Study, Geology (0-0-3)

Directed study problems in geology; hours and subjects to be arranged with each student; for undergraduate students who wish to do special work on a special problem. No student may receive credit for more than six hours of directed study work. Application of a directed study towards required upper division elective hours in the major is subject to prior approval by the departmental undergraduate studies committee. *Prerequisite:* Instructor approval.

4189 Research in Geological Sciences (0-0-1)

4289 Research in Geological Sciences (0-0-2)

4389 Research in Geological Sciences (0-0-3)

This course provides undergraduates with a research experience working with a faculty mentor. It cannot be used to satisfy minimum degree requirements. Grade of S or U. Requires advising from an instructor.

4315 Topics in Geological Sciences (3-0)

Study of topics in fields such as structural geology, environmental geosciences, economic geology, paleontology, petrology, and geochemistry. May be repeated when topics vary. *Prerequisite:* Instructor approval.

4316 Geochemistry (3-0)

Low-temperature aqueous geochemistry emphasizing the chemistry and chemical processes in ground and surface water important as water supplies or supporting important ecosystems, rock- and soil-fluid interactions important in determining water chemistry and waste-rock-fluid system chemistry and processes. *Prerequisites:* CHEM 1305 and CHEM 1306.

4373 Groundwater Contamination and Reclamation (3-0)

Contamination fate and transport in the ground water. Includes the application of remediation methods for various types of contaminants and the discussion of reclamation methods.

4375 Field Geology I (0-0-16)

A three-week course in Field Geology, emphasizing geologic mapping methods and techniques, preparation of stratigraphic sections, geologic maps, and geologic cross-sections. Weekly written reports, in professional style, will be required. *Prerequisites:* GEOL 3315, GEOL 3423 and GEOL 3425. Transportation fee required.

4376 Field Geology II (0-0-16)

A three-week course in advanced Field Geology utilizing GIS tools, computer-aided mapping, and use of air photos in geologically more complex projects. Preparation of weekly written reports, in professional style, will be required. *Prerequisite:* GEOL 4375 with a grade of "C" or better. Transportation fee required.

4380 Environmental Geology and Geophysics (2-4)

Geology and geophysics applied to environmental studies with emphasis on site characterization. Subjects include surficial processes, tectonic processes, general hydrology, soils data collection and analysis. *Prerequisite:* GEOL 3423, or GEOL 3321, or instructor approval. Laboratory fee required.

4383 General Hydrology (3-0)

An introduction to the hydrosphere, which consists of surface water, groundwater, and water in the atmosphere. Topics include evaporation, transpiration, weather and climate, precipitation, runoff, flooding, infiltration, groundwater migration in the vadose and phreatic zones, regional groundwater flow, fluid mechanics, water quality, and applications to other geologic disciplines. *Prerequisite:* GEOL 2411 or GEOL 3321.

4384 Nuclear Waste Disposal (3-0)

Examination of the problems involved in the control of nuclear waste. Characterization, treatment, shipping, and permanent disposal of the nuclear waste will be discussed. The problems of decontamination, decommissioning, and site restoration, as well as quality assurance and control of nuclear waste, will be examined. *Prerequisite:* Upper-division standing in the College of Science or the College of Engineering or instructor approval.

4385 Introduction to Geographic Information Systems (2-3)

Introduction to the principles and applications of Geographic Information Systems (GIS). Topics include the importance of validated databases, GIS design, data structures, producing map products, and spatial analysis. The laboratory will focus on the application of a common GIS software package to science and engineering projects.

Prerequisites: GEOL 1313-1103, or GEOL 1311, or GEOG 1306-1106.

4390 Internship Geological Sciences (0-0-3)

Practical on-the-job experience in federal, state, city/county governmental and/or private agencies or industries. *Prerequisite:* GEOL 3412 with a grade of "C" or better and department approval.

4399 Senior's Thesis (0-0-3)

Guided program of research culminating in the writing of a senior thesis.

4665 Field Geology (Summer Field Course) (0-0-32)

A six-week summer course in field geology. The work will include preparation of topographic and geologic maps, cross-sections, columnar sections, and detailed structural studies of areas embracing both sedimentary and igneous rocks; plane table and aerial photo mapping techniques will be used. A report will be required of each student. Thirty-two hours of field work per week. *Prerequisites:* GEOL 3315, and GEOL 3423. Transportation fee varies.

See the *Graduate Catalog* for graduate programs and courses.

Geophysics (GEOP)

General Prerequisite: Junior standing for all upper-division courses. All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; consult the *Graduate Catalog* for the listing of these courses.

4167 Directed Study, Geophysics (0-0-1)

4267 Directed Study, Geophysics (0-0-2)

4367 Directed Study, Geophysics (0-0-3)

Directed study problems in geophysics; hours and subjects to be arranged with each student; for undergraduate students who wish to work on a special problem. No student may receive credit for more than six hours of directed study work. Application of a directed study towards required upper division elective hours in the major is subject to prior approval by the departmental undergraduate studies committee. *Prerequisite:* Instructor approval.

4332 Exploration Geophysics: Seismic Methods (2-3)

A detailed treatment of seismic prospecting for oil and minerals, includes principles and current practices in seismic refraction and reflection prospecting, as well as related aspects of acoustic logging and other subsurface techniques. *Prerequisites:* (1) GEOL 1313 - GEOL 1103 or GEOL 1311, or (2) GEOL 3321, and MATH 1312, PHYS 2420, and PHYS 2421, or (3) instructor approval. Laboratory fee required.

4334 Exploration Geophysics: Non-Seismic Methods (2-3)

A quantitative treatment of gravity and magnetic fields of the earth as applied to exploration for oil and minerals. Some coverage of nuclear and electrical methods of prospecting. *Prerequisites:* (1) GEOL 1313 - GEOL 1103 or GEOL 1311, or (2) GEOL 3321, and MATH 1312, and PHYS 2420, and PHYS 2421, or (3) instructor approval. Laboratory fee required.

4336 Introduction to Remote Sensing (2-3)

An introduction to acquisition, processing, and interpretation of remote sensing data acquired from both satellites and aircraft. Applications in earth and environmental sciences are stressed as is understanding how to obtain and employ the many types of data that are available. Topics include basic mapping concepts, how sensors work, the structure of remote sensing data and analysis, thermal and radar techniques, data processing, and classification schemes. Laboratory work is primarily computerized exercises. *Corequisite:* PHYS 1404 or PHYS 2421. *Prerequisites:* GEOL 1313 or GEOL 1314, or GEOL 1311 and GEOL 1312.

See the *Graduate Catalog* for graduate programs and courses.

★ Indicates Texas Common Course Number

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Mathematical Sciences

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ASSISTANT PROFESSORS: Argaez, Lim, Pownuk, Sha, Winsor

The Department of Mathematical Sciences offers both a BS degree and a BA degree in Mathematics and the BS in Applied Mathematics. The BA in Mathematics allows for a concentration in Teacher Certification. The BS in Mathematics allows for concentrations in Actuarial Sciences, Secondary Education, and Statistics.

Registration for each course in Mathematical Sciences (with a MATH or STAT prefix) requires a minimum grade of "C" in all prerequisite courses.

BS in Mathematics

The requirement to obtain the BS in Mathematics consists of the general College of Science requirements plus the following specific requirements:

Major (40 semester hours including 24 semester hours of upper-division course work): MATH 1411, MATH 1312, MATH 2300, MATH 2313, MATH 2325 or 2300, MATH 2326, MATH 3325, MATH 3341, MATH 4326, MATH 4341, STAT 3330, and 9 semester hours to be selected from MATH 3300, MATH 3319, MATH 3320, MATH 3323, MATH 3327, MATH 3328, MATH 3329, MATH 3335, MATH 4325, MATH 4329, MATH 4336, STAT 3381, STAT 4380, and with the approval of the department chair and undergraduate advisor, MATH 4370, MATH 4199, and MATH 4399.

Minor: A minimum of 18 semester hours including 6 semester hours of upper-division courses in any approved minor in the College of Business Administration, College of Science, or the Department of Computer Science. The minor discipline and specific courses must be approved by the departmental undergraduate advisor.

Other: ENGL 3359, CS 1401 or CS 1420, and PHYS 2420 - PHYS 2421 are required. If physics is the minor, the additional science requirement may be satisfied by BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108; or CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; or GEOL 1313 - GEOL 1103, GEOL 1314 - GEOL 1104, GEOL 1314 - GEOL 1104.

Additional Science: The required physics sequence above may be used to satisfy this requirement or toward a Physics minor, but not both.

Actuarial Sciences Concentration—This concentration requires the following changes:

Allowed Substitutions: MATH 3323 for MATH 4326; 6 semester hours in the College of Science (not in the major or minor) for the required physics sequence.

Required Replacements: MATH 2320 for MATH 4341; MATH 3320, MATH 4329, and STAT 4380 for the required 9 additional semester hours of upper-division courses in Mathematical Sciences.

Additional Requirements: CS 1420; and as electives, MATH 4199 (2 times), CIS 2335, ECON 2304, COMM 1302; and two courses from ACCT 2301 or 3309, FIN 3310, 4316, BLAW 3301, MKT 3300, MGMT 3303 or POM 3321, ECON 3302, ECON 3303, and ECON 3372.

Secondary Education Concentration—Mathematics majors wishing to achieve secondary education certification as they complete the BS degree must minor in Secondary Education with a Math Certification for grades 8-12 or a Math/Physics Certification for grades 8-12. Adequate scores on state-administered examinations after completion of all coursework are also required for teacher certification.

Major (a minimum of 46 semester hours including 30 semester hours of upper division course work): MATH 1411, MATH 1312, MATH 2313, MATH 2300 or MATH 2325, MATH 2326, MATH 3325, MATH 3323 or MATH 4326, MATH 3341, MATH 3300, STAT 3330, MATH 3329, STAT 4380, MATH 4303, two of the following: MATH 3319, MATH 3327, MATH 4325, MATH 4329, MATH 4328 (non-geometry), MATH 4341.

Minor (21 semester hours taken as field blocks): EDPC 3300 (Requires Admittance into Teacher Education), RED 3342, SCED 3311, SCED 3317, SCED 4367, SCED 4691 (Internship). See the Teacher Education section of the catalog (College of Education) for an explanation of the field blocks and the admission to the teacher education program.

Additional Science for Math Certification: One of the following sequences: (1) CHEM 1305 - CHEM 1105 and CHEM 1306 - CHEM 1106; (2) PHYS 2420 and PHYS 2421; (3) GEOL 1313 - GEOL 1103 and GEOL 1314 - GEOL 1104; (4) BIOL 1305 - BIOL 1107 and BIOL 1306 - BIOL 1108; or (5) ASTR 1307 - ASTR 1107 and ASTR 1308.

Additional Science for Math/Physics Certification: PHYS 2420 and PHYS 2421, PHYS 3323, and PHYS 3325.

Statistics Concentration—This concentration requires the following changes:

Allowed Substitutions: MATH 3323 for MATH 4326; Computer Science courses may be used to fulfill the 10 additional hours of upper-division Mathematical Sciences requirement.

Required Replacements: MATH 4329, STAT 3381, and STAT 4380 for MATH 2326, MATH 3341, and MATH 4341.

BS in Applied Mathematics

The requirement to obtain the BS in Applied Mathematics consists of the general College of Science requirements plus the following specific requirements:

Major (40 semester hours including 24 semester hours of upper-division course work): MATH 1411, MATH 1312, MATH 2300, MATH 2313, MATH 2326, MATH 3323, MATH 3335, MATH 4329, MATH 4336, MATH 4399 (as a senior project), STAT 3330 and STAT 4380, and 3 additional semester hours of upper-division courses in Mathematical Sciences.

Minor: A minimum of 18 semester hours including 6 semester hours of upper-division courses in any approved minor in the College of Business Administration, College of Science, or the Department of Computer Science. The minor discipline and specific courses must be approved by the departmental undergraduate advisor.

Other: ENGL 3359, CS 1401 or CS 1420, and PHYS 2420 - PHYS 2421 are required. If physics is the minor, the additional science requirement may be satisfied by BIOL 1305 - BIOL 1107, BIOL 1306 - BIOL 1108; or CHEM 1305 - CHEM 1105, CHEM 1306 - CHEM 1106; or GEOL 1313 - GEOL 1103, GEOL 1314 - GEOL 1104.

BA in Mathematics

Students should refer to the College of Liberal Arts section of this catalog for the general requirements for the BA degree. The specific courses required for this major are (40 semester hours including 24 of upper-division course work): MATH 1411, MATH 1312, MATH 2313, MATH 2300 or MATH 2325, MATH 3323 or MATH 4326, MATH 3325, MATH 3341, MATH 3300, MATH 3329, STAT 3330, STAT 4380, MATH 4303, and one of the following: MATH 2326, MATH 3319, MATH 3327, MATH 4325, MATH 4329, MATH 3328 (non-geometry), and MATH 4341.

Minor in Mathematics

A minor in mathematics requires MATH 1411, MATH 1312, and an additional minimum of 4 courses, at least 2 (3 for the BA) of which must be upper-division courses. Approved courses include MATH 2300, MATH 2325, MATH 2313, MATH 2320, MATH 2326, MATH 3319, MATH 3320, MATH 3323 or MATH 4326, MATH 3325, MATH 3327, MATH 3328, MATH 3329, MATH 3335, MATH 3341, MATH 4325, MATH 4329, MATH 4336, MATH 4341, STAT 3330, STAT 3381, and STAT 4380.

Minor in Statistics

Students may minor in Statistics by taking 18 hours (six advanced) as follows: CS 1420 or equivalent, MATH 2301 or 1411, plus 12 hours from STAT 2380, 2381, 3330, 4380, and MATH 3320 and MATH 4370 (topics in Statistics). Students who plan to pursue graduate studies in Statistics-related areas are urged to take STAT 4380.

Advising

All undergraduate mathematics majors are required to consult with and have their enrollment approved by their undergraduate advisor before every enrollment.

Placement

Students who intend to register in MATH 0310, MATH 0311, MATH 1319, MATH 1320, MATH 1411, MATH 1508, or MATH 2301 must present an official document at registration showing that they have either an adequate placement examination score or received a grade of "C" or better in the prerequisite course. Placement exam scores expire after two years.

GPA

Mathematics majors must maintain a 2.0 GPA in all MATH and STAT courses (students should refer to the Standards of Academic Performance section of this catalog).

Prerequisites

All mathematics (MATH) or statistics (STAT) courses that have MATH or STAT prerequisites require a grade of "C" or better in the prerequisite course.

Mathematics (MATH)

0120 Lab for Math 1320 (0-2)

A lab to support learning of the mathematical concepts, problem solving and mathematical writing skills encountered in MATH 1320. Credit hours received for MATH 0120 may not be used to satisfy any institutional degree requirements. Concurrent enrollment in MATH 1320 is required. *Corequisite:* MATH 0120. *Prerequisite:* ACCUPLACER College Level Math score of 35-50.

0310 Introductory Algebra (3-0)

The course begins with a review of signed numbers, rational numbers, and exponents. Major topics include variables, linear equations and inequalities, word problems, and operations with polynomials. This course is designed as an introduction to MATH 0311. Credit hours received for MATH 0310 may count toward removal of provisional status, but may not be used to satisfy any institutional degree requirements. *Prerequisite:* Placement by examination or transfer credit from EPCC for MATH 0301.

0311 Intermediate Algebra (3-0)

The course begins with a review of polynomials. Major topics include rational expressions and equations, radical expressions, rational exponents, complex numbers, quadratic equations, graphing lines, and geometry. The course is designed as an introduction to MATH 1508 or 1320. Credit hours received for MATH 0311 may count toward removal of provisional status, but may not be used to satisfy any institutional degree requirements. *Prerequisite:* MATH 0310 or placement by examination.

1312 Calculus II (3-0)

(MATH 2314)

Continuation of MATH 1411. Topics include special methods of integration and applications; infinite series. *Prerequisite:* MATH 1411.

1319 Mathematics in the Modern World (3-0)

(MATH 1333)

An introduction to some of the great ideas of mathematics, including current applications of logic, algebra, geometry, statistics, and other topics. Intended for students whose majors do not require MATH 2301, MATH 1508 or MATH 1411. *Prerequisite:* An adequate score on a placement examination or MATH 0311.

1320 Mathematics for Social Sciences I (3-0)

(*) MATH 1324

Topics of college algebra and geometry including the algebra of sets; linear, quadratic, exponential, and logarithmic functions; systems of linear equations and inequalities; matrix algebra; probability and the mathematics of finance. *Prerequisite:* An adequate score on a placement examination, or MATH 0311.

1411 Calculus I (4-0)

(*) MATH 2413

Topics include limits, continuity, differentiation, and integration of Functions of a single variable. *Prerequisites:* Four years of high school mathematics including trigonometry and analytic geometry and an adequate score on a placement examination, or MATH 1508.

1411A Calculus I (3-2)

(*) MATH 2413

Topics include limits, continuity, differentiation, and integration of Functions of a single variable. *Prerequisites:* Four years of high school mathematics including trigonometry and analytic geometry and an adequate score on a placement examination, or MATH 1508.

1508 Precalculus (5-0)

(*) MATH 2412

Topics include the algebraic manipulation and graphical representation of the following classes of real functions: linear, polynomial, rational, exponential, logarithmic, and trigonometric. Inverse functions, triangle trigonometry, complex numbers, and polar coordinates are included. *Prerequisite:* MATH 0311 or an adequate score on a placement examination.

2300 Discrete Mathematics (3-0)

(*) MATH 2305

Topics in discrete mathematics including induction, recursion and recurrence relations, sets and relations, combinatorics, and graph theory. *Prerequisite:* MATH 1411.

2301 Mathematics for Social Sciences II (3-0)

(*) MATH 1325

Topics include linear programming and an introduction to differential and integral calculus with applications to business and the social sciences. *Prerequisite:* An adequate score on a placement examination, or MATH 1320, or MATH 1508 or TCCN MATH 1314.

2303 Properties of the Real Numbers I (3-0)

A study of the arithmetic structure of the real numbers from an advanced point of view. Relations with concepts from set theory, groups, rings, and fields will be included. *Prerequisite:* MATH 1319, or MATH 1320, or MATH 1508, or TCCN MATH 1314, or an acceptable score on a placement examination.

2313 Calculus III (3-0)

(*) MATH 2315

Continuation of MATH 1312. Topics include solid analytic geometry, partial differentiation, and multiple integrals. *Prerequisite:* MATH 1312.

2320 Mathematics of Interest (3-0)

Mathematical foundations; a calculus based development of the theory of interest with applications including annuities, bonds, depreciation, sinking funds, amortization schedules, insurance and yield rates. *Prerequisite:* MATH 2301 or MATH 1312.

2325 Introduction to Higher Mathematics (3-0)

An introduction to mathematical problem solving, experimentation, and proof writing, and the relationships among all three. The course will be built around a series of in-depth problems from a variety of areas of higher mathematics, especially those not encountered in pre-calculus and calculus courses. *Corequisite:* MATH 1411.

2326 Differential Equations (3-0)

(*) MATH 2320

An analytical, graphical, and numerical study of first order equations and system of equations, modeling, bifurcations, linearization, and Laplace transforms. *Prerequisite:* MATH 1312.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3300 History of Mathematics (3-0)

One of two periods will be addressed: (1) Pre-17th century history. Mathematical contributions for various cultures and eras from Babylonia to 16th century Europe are reviewed with special focus on Greek mathematics. (2) Early modern history. A historical account of the genesis of trigonometry, logarithms, analytic geometry, calculus, and

reviewed with special focus on Greek mathematics. (2) Early modern history. A historical account of the genesis of trigonometry, logarithms, analytic geometry, calculus, and the study of functions, with an emphasis on the period of the European scientific revolution (1600-1750). Original works by noted mathematicians will be examined in order to understand the evolution of our current mathematics curriculum. May be repeated for credit when the periods differ. *Prerequisite:* MATH 1411 or instructor approval.

3303 Properties of the Real Numbers II (3-0)

Additional topics in the structure of the real numbers. Basic number theory including divisibility and congruences. Topics in finite mathematics. *Prerequisites:* MATH 1508 and MATH 2303 each with a grade of "C" or better.

3304 Fundamentals of Geometry from an Advanced Standpoint (3-0)

An axiomatic treatment of Euclidean geometry including some historical perspectives. Informal treatment of other geometries such as distance and hyperbolic geometry. *Prerequisites:* MATH 1508 and MATH 2303 each with a grade of "C" or better.

3305 Conceptual Mathematics From Multiple Perspectives I (3-0)

An inquiry-based course emphasizing connections between elementary and advanced mathematics, and across the fields of mathematics. Topics include a conceptual analysis of integer arithmetic and algorithms, geometry and measurement, and applications to data analysis. Multiple representations of mathematical concepts will be stressed, along with mathematical reasoning and

perspectives. *Prerequisite:* MATH 2303 with a grade of "C" or better.

3308 Conceptual Algebra From Multiple Perspectives (3-0)

An inquiry-based course focusing on ration, proportion, functions, algebra, and geometry with an emphasis on reasoning and conceptual mathematical thinking. Appropriate technology and mathematical perspectives will be integrated with the content. *Prerequisite:* MATH 2303 with a grade of "C" or better.

3309 Conceptual Mathematics From Multiple Perspectives II (3-0)

An inquiry-based course emphasizing connections between elementary and advanced mathematics, and across the fields of mathematics. Topics include a conceptual analysis of rational arithmetic and algorithms, multiplicative thinking, geometry and measurement, patterns and functions, discrete mathematical structures, and applications to data analysis. Multiple representations of mathematical concepts will be stressed, along with mathematical reasoning and perspectives. *Prerequisite:* MATH 3308 with a grade of "C" or better.

3319 Elementary Number Theory (3-0)

An introduction to some of the classical topics in number theory including divisibility, congruences, and quadratic reciprocity. Diophantine equations and the distribution of primes. *Prerequisite:* MATH 1312.

3320 Actuarial Mathematics (3-0)

Individual and collective risk models. Survival distributions and life contingency tables. Models for life insurance and multiple life functions. *Prerequisite:* STAT 3330.

3323 Matrix Algebra (3-0)

Systems of linear equations, matrices, determinants, eigenvalues and eigenvectors, diagonalization, vector spaces, and linear transformations. *Prerequisite:* MATH 1312.

3325 Principles of Mathematics (3-0)

Logic and proofs, elements of set theory, relations and functions: application of these ideas. Cardinality, groups and their quotients, and the field of real numbers. *Prerequisite:* MATH 1312.

3327 Applied Algebra (3-0)

Study of problems from one of the following subjects: Automata Theory; Formal Languages; Information Theory; Theory of Algorithms; Artificial intelligence. This course deals with the theoretical components of computer science and is also of interest to students of structural/theoretical features in such disciplines as biology, linguistics, social science, and in learning theory. May be repeated for credit if subjects differ. *Prerequisite:* MATH 1312.

3328 Foundations of Mathematics (3-0)

Study of principles of mathematical thinking and of common objects of mathematical thought. Emphasis on one of these aspects: Logic; Set Theory; Topology. May be repeated for credit if subjects differ. *Prerequisite:* MATH 1312 with a grade of "C" or better.

3329 Geometry (3-0)

Axiomatic development of two- and three-dimensional Euclidean geometry. Introduction to non-Euclidean geometry. Use of transformations (reflections, translations, glide-reflections, rotations, dilations) in geometry. *Prerequisite:* Math 1312 with a grade of "C" or better.

3335 Applied Analysis I (3-0)

Line and surface integrals, change of variable in multiple integrals, vector analysis, and an introduction to complex variables. *Prerequisite:* MATH 2313.

3341 Introduction to Analysis (3-0)

A theoretical study of the foundations of analysis of functions of one variable. Includes the real number system, convergence, continuity, differentiability, and integration.

A theoretical study of the foundations of calculus of functions of one variable. Includes the real number system, convergence, continuity, differentiability, and elementary integration theory. *Prerequisite:* MATH 3325 with a grade of "C" or better or consent of the instructor.

4199 Individual Studies in Mathematics (0-0-1)

4399 Individual Studies in Mathematics (0-0-3)

Studies of topics not included in or going beyond the regular course offerings. May be repeated for credit. *Prerequisite:* Department approval.

4302 Fundamental Mathematics Concepts Taught in Grades 4-8 (3-0)

Mathematics taught in grades 4-8 will be examined from an advanced standpoint. This course is intended to help preservice middle school mathematics teachers make connections between their undergraduate mathematics education and the mathematics they will teach. Topics will be chosen from: number concepts and relationships, fundamental ideas of number theory, discrete mathematics, probability and statistics, numerical literacy, Euclidean and non-Euclidean geometry, transformational geometry, patterns, variables, and functions, multiple representations of functions, mathematical modeling, and concepts of calculus. *Prerequisite:* MATH 3308 with a grade of "C" or better.

4303 Fundamental Mathematics from an Advanced Standpoint (3-0)

Mathematics taught in secondary education will be examined from an advanced standpoint. This course is intended to help preservice secondary mathematics teachers make connections between their undergraduate mathematics education and the mathematics that they will teach. Topics covered in the course include real and complex numbers, functions, algebraic structures and solving equations, natural numbers, induction and recursion, divisibility properties of integers and polynomials, systems of modular arithmetic, and number fields. *Prerequisite:* MATH 3325 with a grade of "C" or better.

4310 Elements of Applied Functional Analysis (3-0)

Introduction to linear spaces and linear operators, norm and its properties, normed spaces, Banach spaces, fixed point theorem, Lebesgue spaces and basic inequalities, inner product and its properties, inner product spaces, Hilbert spaces, orthogonal projections, Riesz Theorem, Fourier series. Selected applications to various fields of engineering and science. *Prerequisites:* MATH 2313 and MATH 3323 or MATH 4326 each with a grade of "C" or better.

4325 Modern Algebra (3-0)

Groups, rings, integral domains, and fields. *Prerequisite:* MATH 3325 with a grade of "C" or better.

4326 Linear Algebra (3-0)

Vector spaces, linear transformations and matrix representations, canonical forms, eigenvalues, invariant subspaces, orthogonal and unitary transformations, and bilinear and quadratic forms. *Prerequisite:* MATH 3325.

4329 Numerical Analysis (3-0)

The course covers numerical algorithms for approximation of functions, quadrature, solution of ordinary differential equations, solution of nonlinear equations, solution of linear systems of equations, computing eigenvalues and eigenvectors. Many computer applications will be required. *Prerequisites:* MATH 3323 or MATH 4326 with a grade of "C" or better, and a working knowledge of a high level programming language.

4336 Applied Analysis II (3-0)

Series solutions of differential equations. Fourier series and Fourier integrals. Bessel's equation and Bessel functions. Legendre's equation and Legendre polynomials, the Sturm-Liouville problem and eigenfunction expansions, and an introduction to partial differential equations. *Prerequisite:* MATH 2326.

4341 Real Analysis (3-0)

Convergence of series of constant terms; convergence of sequences and series of functions; and analysis of functions of several variables to include the differential approximation theorem, the inverse function theorem, and the implicit function theorem. *Prerequisite:* MATH 3341.

4370 Topics Seminar (3-0)

Organized lectures in mathematics on topics not represented among the other course offerings. *Prerequisite:* Junior standing; additional prerequisites may be announced as required by the topics. May be repeated for credit.

See the *Graduate Catalog* for graduate programs and courses.

Statistics (STAT)

1380 Basics of Descriptive and Inferential Statistics (3-0)

A course in statistical literacy. Emphasis will be on standard descriptive measures of location, spread, and association. Regression, probability and sampling, and Binomial distribution. Interpretation of data which occur in daily life (polls, weather forecasting, surveys, quality control, etc.) will be stressed. *Prerequisite:* MATH 1319, or MATH 1320, or MATH 1508, or equivalent or TCCN MATH 1314.

2182 Computing Laboratory for Statistics 2380 (0-2)

Practical exercises in the handling of statistical data and experimental sampling as related to the course work in STAT 2380. Includes an introduction to data processing. *Corequisite:* STAT 2380.

2380 Statistical Methods I (3-0)

An elementary introduction to statistical concepts and methods. Descriptive statistics, elementary probability, binomial distribution, normal distribution, estimation and

An elementary introduction to statistical concepts and methods. Descriptive statistics, elementary probability, binomial distribution, normal distribution, estimation and hypothesis testing for one- and two-sample problems, simple linear regression, and correlation. *Corequisite:* STAT 2182. *Prerequisite:* MATH 1320, or MATH 1508, or equivalent, or TCCN MATH 1314.

2381 Statistical Methods II (3-0)

A continuation of Statistics 2380 with treatment of more advanced statistical methods. Chi-square goodness-of-fit and contingency table analysis, analysis of variance and multiple comparisons, multiple linear regression and correlation and analysis. *Prerequisites:* STAT 2380-STAT 2182.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3330 Probability (3-0)

Theory and applications of probability models. Sample space, combinatorics, conditional probability, random variables, discrete and continuous probability distributions, expectation, moment generating functions, law of large numbers, and central limit theorem. *Prerequisite:* MATH 2313.

3381 Nonparametric Statistics (3-0)

Methods of distribution-free statistical inference, the binomial test and the related sign test, quantile test, McNemar test, Tolerance intervals. Nonparametric treatment comparisons in independent samples (Mann-Whitney test) and related samples (Wilcoxon signed ranks test, Friedman test, and others.) Ranks correlations methods. Specialized procedures for regression. *Prerequisite:* STAT 2381 or STAT 4380 with a grade of "C" or better, or equivalent.

4380 Statistics I (3-0)

A calculus-based development of statistical concepts and methods. Distribution theory, point and interval estimation and hypothesis testing in parametric statistical models, chi-square goodness-of-fit and contingency table analysis, simple linear regression analysis, and introduction to analysis of variance. *Prerequisite:* STAT 3330.

✦ Indicates Texas Common Course Number



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Physics

210 Physical Science Building
(915) 747-5715
physics@utep.edu

CHAIRPERSON: J. A. López
PROFESSORS EMERITI: Max C. Bolen, S. John Brient, Rufus E. Bruce, Eugene Alan Dean, Juan O. Lawson
PROFESSORS: J. A. López
ASSOCIATE PROFESSORS EMERITI: Michael H. Blue, Clarence H. Cooper
ASSOCIATE PROFESSORS: Fitzgerald, Hagedorn, Ravelo, Saez
ASSISTANT PROFESSORS: Baruah, Botez, Castro-Colin, Durandurdu, Hamed, F. Manciu, M. Manciu, Slusher, Suskavcevic

The Department offers both a BS and a BA degree in Physics. The BS includes the opportunity to obtain concentrations in Applied Physics or Secondary Teaching Certification.

BS in Physics

The requirements to obtain the BS in Physics consist of the general College of Science requirements plus the following specific requirements:

Major (43 semester hours including 33 semester hours of upper-division course work): PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3323, PHYS 3325, PHYS 3243 (taken 3 times), PHYS 3331, PHYS 3351, PHYS 3352, PHYS 4341, PHYS 4342, PHYS 4355, and PHYS 4356 or PHYS 4357.

Minor: Mathematics is the required minor except for the Secondary Education Concentration, where the minor is secondary education. The mathematics minor consists of MATH 1411, MATH 1312, MATH 2313, MATH 2326, MATH 3335, and 2 courses selected from MATH 3323, MATH 4329, and MATH 4336.

Additional Science: CHEM 1305 - CHEM 1105 and CHEM 1306 - CHEM 1106 are required.

Other: CS 1401 or CS 1420 is required.

The following concentrations require approval of course substitutions. The approval is to be obtained from the departmental Concentration Committee.

Applied Physics Concentration

Major (43 semester hours including 33 semester hours of upper-division course work): PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3323, PHYS 3325, PHYS 3243 (taken 3 times), PHYS 3331, PHYS 3351, PHYS 4341, PHYS 4355, and an additional nine semester hours of approved upper-division hours.

Secondary Education Concentration

This concentration requires minors in mathematics and secondary education to take the following courses:

Major (a minimum of 38 semester hours including 21 semester hours of upper-division course work): ASTR 1307 - ASTR 1107, ASTR 1308, PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3325, PHYS 3243 (taken 3 times), plus a minimum of 12 semester hours of approved upper-division course work in physics.

Minor: Secondary Education and Mathematics are the required minors. The required courses for a minor in mathematics include MATH 1411, MATH 1312, MATH 2313, MATH 2326, MATH 3335; and at least one course chosen from MATH 3323, MATH 4329, or MATH 4336. The required courses for a minor in secondary education include EDPC 3300, SCED 331, SCED 3317, RED 3342, SCED 4368, and SCED 4691 (Internship). See the College of Education portion of the catalog for details about this minor.

Other: CHEM 1305 - CHEM 1105 and CHEM 1306 - CHEM 1106. The mathematics courses satisfy the 12-semester hour supporting field and the chemistry courses satisfy the additional science requirements.

BA in Physics

Students should consult the College of Liberal Arts section of this catalog for the general requirements for the BA degree. The specific courses required for this major are (28 semester hours including 18 semester hours of upper-division course work) PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3325, PHYS 3243 (taken 3 times), PHYS 3351, PHYS 4341, and PHYS 4355. Mathematics is the required minor. (A minor in the College of Liberal Arts requires 9 semester hours of upper-division course work.)

Minor in Physics

A minor in physics requires PHYS 2420, PHYS 2421, PHYS 2230, PHYS 3325, and an additional 5 (6 for the BA) semester hours selected from PHYS 3323, PHYS 3243, PHYS 3331, PHYS 3351, PHYS 4341, PHYS 4342, or PHYS 4355.

Physics Honors Program

The Physics Honors Program is designed to recognize and enhance the development of talented physics students. The program consists of departmental awards for outstanding achievement and special courses, seminars, and research laboratories for honors students. In addition, Physics Honors Students are also eligible to earn the BS degree with Departmental Honors and to participate in the five-year BS/MS Program.

Incoming freshmen or students with fewer than 30 semester hours of credit are eligible to be Physics Honors students if they graduated in the top 20% of their high school graduating class and their combined SAT score is 1000 or more with at least 600 on the math portion of the SAT (or equivalent for other examinations). Students with 30 or more semester hours of credit must have a minimum 3.2 GPA (with at least 3.2 GPA in all physics and mathematics courses) to be eligible.

BS Degree with Physics Department Honors

Physics Honors students who satisfactorily complete an undergraduate Honors Thesis based on research in Physics are eligible to receive the BS degree with Departmental Honors in Physics. Usually the research will be carried out under the direction of a member of the faculty of the Department of Physics. The satisfactory completion of the Honors Thesis will be judged by the Thesis research director in conjunction with the Physics Department's Honors Committee. The candidate for Department Honors must request approval of candidacy prior to the beginning of the senior year. Upon acceptance by the department, the candidate shall enroll in PHYS 4177, PHYS 4277, and PHYS 4377 for successive semesters and must have accumulated a total of 6 semester hours of PHYS 4177, PHYS 4277, and PHYS 4377 credit on completion of the Honors Thesis Program.

Five Year BS-MS Program

The Department of Physics provides an opportunity for qualified students to participate in a five-year bachelor/master of science degree program. The program is limited to students who maintain at least a 3.0 GPA. Freshmen honors students should consult with the departmental undergraduate advisor about the details of this program including course selection and admission to the Graduate School.

Astronomy (ASTR)

1107 Astronomy Laboratory I (0-2)

( PHYS 1111)

Basic laboratory exercises in solar system astronomy. An introduction to the concepts and methods employed by astronomers in studying the solar system. *Prerequisites:* ASTR 1307 and MATH 0310, or placement into MATH 0311 or higher level mathematics course. ASTR 1307 may be taken concurrently with ASTR 1107. Fees required.

1108 Astronomy Laboratory II (0-2)

( PHYS 1112)

Basic laboratory exercises in stellar and galactic astronomy. *Prerequisites:* ASTR 1107 and ASTR 1308. ASTR 1107 and 1308 may be taken concurrently with ASTR 1108. Fees required.

1307 Elementary Astronomy of the Solar System (3-0)

( PHYS 1311)

A survey of the solar system. Topics include astronomical history and instruments, the planets and their moons, comets, and meteors. May not be counted toward a major or minor in physics. Students seeking four credit hours are encouraged to take ASTR 1107 concurrently.

1308 Elementary Astronomy of Stars and Galaxies (3-0)

( PHYS 1312)

Topics include stellar properties, galaxies, and cosmology. May not be counted toward a major or minor in physics. Students seeking four credit hours are encouraged to take ASTR 1108 concurrently. *Prerequisite:* ASTR 1307.

Physical Science (PSCI)

2303 Physical Science I (2-2)

( PHYS 1315)

An introduction to the physical sciences. Selected topics from chemistry and physics. Course taught in a laboratory setting using hands-on approach. *Prerequisite:* MATH 1319 or MATH 1320, or MATH 1409, or MATH 1508. MATH 1319, MATH 1320, MATH 1409, or MATH 1508 may be taken concurrently with PSCI 2303. Laboratory fee required.

3304 Physical Science II (2-2)

( PHYS 1317)

A continuation of PSCI 2303, treating different topics. This class is restricted to teacher education majors. *Prerequisite:* PSCI 2303. Laboratory fee required.

Physics (PHYS)

1403 General Physics I (3-2)

( PHYS 1401)

A non-calculus treatment of mechanics and heat. Laboratory experience is an essential component of this course. May not be counted toward a major or minor in physics. *Prerequisite:* MATH 1409, MATH 1508, or MATH 1320. Fees required.

1404 General Physics II (3-2)

( PHYS 1402)

A continuation of PHYS 1403, treating topics in electricity, magnetism, sound, and light. May not be counted toward a major or minor in physics. *Prerequisite:* PHYS 1403. Fees required.

2230 Thermal and Fluid Physics (2-0)

An introduction to thermal physics and introductory fluid dynamics. The properties of gases, temperature, internal energy, heat, and the first and second laws of thermodynamics. Buoyancy and Archimedes principle, simple hydrodynamics of compressible and incompressible flow, Bernoulli's equation, and convection. *Prerequisite:* PHYS 2420 with a grade of "C" or better.

2420 Introductory Mechanics (3-3)

( PHYS 2425)

Dynamics of particles and rigid bodies using vectors and calculus, Newton's laws, conservation of energy and momentum, rotational motion and universal gravitation.
Prerequisite: MATH 1411. MATH 1411 may be taken concurrently with PHYS 2420. Laboratory fee required.

2421 Fields and Waves (3-3)

( PHYS 2426)

Electric field and potential; current and magnetism; time varying fields and electromagnetic waves, interference and diffraction
Prerequisite: MATH 1312. MATH 1312 may be taken concurrently with PHYS 2421. Laboratory fee required.

General Prerequisite: All required lower-division courses in the major should be completed with a grade of "C" or better in order to enroll in upper-division courses in the major. Some upper-division courses may be applied toward graduate degrees; students should consult the *Graduate Catalog* for the listing of these courses.

3243 Advanced Laboratory Practice (0-6)

Topics in and practices of experimental physics. May be repeated three times for credit
Prerequisite: PHYS 2421. Fees required.

3323 Physical Optics (3-0)

Wave propagation, interference, diffraction, absorption, scattering, and polarization. The theory and operation of lasers and optical resonant cavities are introduced.
Prerequisites: PHYS 2421.

3325 Survey of Modern Physics (3-0)

Survey of special relativity theory and quantum physics applied to atoms, molecules, nuclei, and the solid state
Prerequisite: PHYS 2421.

3331 Thermal Physics (3-0)

Introduction to statistical mechanics and thermodynamics.
Prerequisites: PHYS 2421 and MATH 2313.

3351 Analytical Mechanics I (3-0)

Newtonian mechanics of particles and rigid bodies.
Prerequisites: PHYS 2421, and MATH 2326. MATH 2326 may be taken concurrently with PHYS 3351.

3352 Analytical Mechanics II (3-0)

Topics in mechanics such as mechanics of deformable bodies and application of

Lagrangian and Hamiltonian formulations.
Prerequisite: PHYS 3351.

4177 Undergraduate Research Problems in Physics (0-0-1)

4277 Undergraduate Research Problems in Physics (0-0-2)

4377 Undergraduate Research Problems in Physics (0-0-3)

Supervised individual research. May be repeated for credit.
Prerequisites: Senior standing with a 3.2 grade point average or better and permission of the research advisor.

4341 Electromagnetics I (3-0)

Electromagnetic theory via Maxwell's equations.
Prerequisites: PHYS 2421 and MATH 3335 or instructor's consent.

4342 Electromagnetics II (3-0)

Advanced topics in electrodynamic theory such as electrodynamic waves and radiation and relativistic electrodynamics
Prerequisite: PHYS 4341.

4348 Fundamentals of Acoustics (3-0)

The principles underlying the generation, transmission, and reception of acoustic waves. Mathematical analysis of the various types of vibration of solid bodies. Propagation of plane and spherical sound waves through fluids, transmission and absorption phenomena, resonators and filters. *Prerequisites:* PHYS 2421, and MATH 2326.

4355 Introductory Quantum Mechanics (3-0)

Wave mechanics fundamentals, one-dimensional eigenvalue problems, angular momentum and spin, the hydrogen atom, and quantum statistics
Prerequisites: PHYS 3325, and MATH 2326.

4356 Atoms, Molecules, and Solids (3-0)

Multielectron atoms and molecules. Structure of solids, band theory of conduction, and other quantum properties of solids
Prerequisite: PHYS 4355.

4357 Relativity, Nuclei and Particles (3-0)

Special relativity, nuclear models, nuclear decay and reactions, and an introduction to elementary particles
Prerequisite: PHYS 4355.

4370 Health Physics I (3-0)

The physics of ionizing radiation; charged particle, neutron, and high-energy photon interactions; natural and man-made sources of radioactivity, their production, and detection.
Prerequisites: PHYS 3325, and MATH 2326.

4371 Health Physics II (2-3)

Topics include radiation quantities and units, detection electronics, statistics, detectors and dosimeters. Also includes topics in radiation dose evaluation, radiation biophysics, and laboratory experiences in electromagnetic and particulate radiation detection and dosimetric methods. *Prerequisites:* PHYS 4370 and two semesters of PHYS 3243 each with a grade of "C" or better. Laboratory fee required.

4393 Special Topics in Physics (3-0)

Topics to be announced. May be repeated for credit.

See the *Graduate Catalog* for graduate programs and courses.

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SCHOOL OF NURSING

A baccalaureate nursing program was established at El Paso in 1970 under the administration of The University of Texas System School of Nursing. In 1976, the School of Nursing became an integral part of The University of Texas at El Paso and was organized as a College of Nursing. In 1979 the Allied Health Program was transferred to the College and shortly thereafter, the name was changed to the College of Nursing and Allied Health. In 1999, the college was renamed the College of Health Sciences with two separate Schools, one for Nursing and another for Allied Health. On September 1, 2006, Nursing again became its own independent unit and is now known as The University of Texas at El Paso School of Nursing.

The School of Nursing is located approximately one mile from the main UTEP campus, at 1101 North Campbell Street, and is housed in a large, modern building which includes classrooms, laboratories, faculty offices, and lounges for both students and faculty.

The School of Nursing provides undergraduate nursing programs leading to the Bachelor of Science in Nursing degree (Traditional 4 year BSN; RN to BSN Option and Fast Track accelerated program for students with a previous degree) as well as the graduate program culminating in the Master of Science in Nursing degree.

The nursing programs are fully accredited by the Commission on Collegiate Nursing Education (CCNE) and approved by the Texas State Board of Nursing (BON).

SCHOOL OF NURSING

1101 N. Campbell, Room 711
(915) 747-8217
son@utep.edu

DEAN: Robert L. Anders
ASSOCIATE DEAN OF ACADEMIC AFFAIRS: Leticia Lantican
ASSISTANT DEAN OF STUDENT AFFAIRS: Pearl Pope
ASSISTANT DEAN FOR UNDERGRADUATE EDUCATION: Patricia Fowler
PROFESSORS EMERITI: Patricia Castiglia, Audree Reynolds
PROFESSORS: Adams, Amaya, Anders, Olson, Poss, Reynolds
ASSOCIATE PROFESSORS EMERITI: Betty J. Kinsinger, Leticia Lantican, Jesusa Lara
CLINICAL ASSOCIATE PROFESSORS: Lyon, Pierson, Robinson
ASSOCIATE PROFESSOR: Fooladi, Martinez
ASSISTANT PROFESSORS: Edmonds, McKee
CLINICAL ASSISTANT PROFESSORS: Bass, Farnsworth
INSTRUCTORS: Beeman, Blanco, Culton, Flahive, Fowler, Francis, Hamlin, Hennessy, Herbias, McCallister, Monsivais, Padilla, Pope, Rankin, Snell, Wholeben

Philosophy

The philosophy of the School of Nursing program of The University of Texas at El Paso is derived from the mission of the University. The mission of the School of Nursing is to prepare professional practitioners of nursing to care for the health needs of individuals, families, groups, and communities in society. Nursing has a major role in assuring that changing health needs are met.

Objectives of the Undergraduate Nursing Program

1. Provide professional nursing care to individuals, families, groups, and communities in various developmental stages and from different sociocultural backgrounds.
2. Use critical thinking and apply theories, principles, and concepts in making clinical judgments about the health care needs of individuals, families, and communities.
3. Intervene to minimize or alleviate stressors: to reinforce positive adaptive behavior; to promote, maintain, and restore health; and to care for the ill, disabled, and terminally ill.
4. Collaborate with other professionals, agency personnel, and consumers in planning, implementing, and evaluating health care.
5. Practice nursing within the framework of legal, ethical, moral, and professional standards.
6. Use research findings in the care of clients/patients.
7. Provide leadership within the nursing profession and in health affairs.
8. Develop a lifetime commitment to intellectual inquiry, self-directed learning, and professional growth.
9. Use undergraduate education as a basis for graduate study.

Bachelor of Science in Nursing

The undergraduate nursing program at the University of Texas at El Paso is fully accredited by the Commission on Collegiate Nursing Education (CCNE) and approved by the State of Texas Board of Nursing (BON).

The curriculum provides an innovative, integrated and conceptual model for teaching and learning wherein critical thinking and decision making are emphasized. The curriculum is grounded in the sciences and is focused on addressing nursing and health care across the life span. The degree plan consists of approximately two years of lower-division course work followed by two or more years of upper-division nursing courses taken at the School of Nursing. The entire program is possible to complete in eight full-term semesters. The curriculum culminates in preceptored courses that include learning and practice with experienced professional nurses in acute care facilities and community health care settings.

Upon successful completion of the program, students receive the Bachelor of Science in Nursing degree and are eligible to take the licensing examination (NCLEX) needed to practice as a registered nurse.

Degree Requirements for a Bachelor of Science in Nursing

| | |
|------------------------------|--------------------------------|
| University Core Requirements | 44 semester credit hours |
| Pre-Professional Courses | 14 semester credit hours |
| NURS Professional Courses | 59 semester credit hours |
| <u>Electives</u> | <u>3 semester credit hours</u> |
| Total | 120 semester credit hours |

Traditional Four Year Program:

Contact Nina Williams, ninaw@utep.edu, (915)747-8323

The traditional BSN curriculum consists of 120 semester hours. Pre-requisite courses include the natural, physical, and behavioral sciences, general education and **Core** courses. Students may apply for acceptance into the nursing program after completing 49 degree plan pre-requisite credit hours (including a minimum of two (2) Core courses. Students planning to enter the nursing program must meet all university admission requirements and are subject to the academic requirements stated in the current UT El Paso catalog. Acceptance into the program is dependent upon the number of applicants, academic performance in required courses (students must have a minimum 2.5 grade point average), Nurse Entrance Test (NET) Math and Reading scores and space availability.

Application to the Nursing Major: Traditional Four Year Nursing Program

Student applicants to the nursing major must have completed *49 degree plan semester credit hours. Applicants are ranked on the following criteria: a minimum cumulative GPA of 2.5 for the 49 semester credit hours, a minimum cumulative GPA of 2.5 in the BIOL, CHEM, MCR, and MATH courses in those 49 credit hours, a minimum overall cumulative UTEP GPA of 2.0, and the applicant's scores on the Nurse Entrance Test (NET). Most successful applicants to the nursing major have prerequisite and science GPAs in the 3.0 – 4.0 range.

Fast Track Program:

Contact Karen Lyon, kclyon@utep.edu, 747-7279

The Bachelor of Science in Nursing Fast Track Program is a 15 month accelerated program designed for second-degree students interested in making a career change. Students may be accepted into the program with any baccalaureate degree, but must still meet the admission requirements for the University of Texas at El Paso and the School of Nursing. Acceptance into the program is dependent upon the number of applicants, academic performance in required courses, Nurse Entrance Test (NET) math and Reading scores and space availability. Students must also commit to full time enrollment status.

Prerequisites:

1. A minimum of a bachelor's degree from an accredited college/university that meets the Texas Core requirements is required. Students with a bachelor's degree from a private university/college or from a non-Texas public university/college must complete the Texas core.
2. 26 credit hours of natural, physical and behavioral sciences and 6 credit hours of general courses completed in a baccalaureate degree within the past 7 years.

Application to the Nursing Major: Fast Track Nursing Program

Student applicants to the Fast Track Nursing Program will be selected based on the standard admission criteria for all applicants to the nursing program. Applicants with any BA/BS or higher degree are eligible to apply for admission into the "Fast Track" BSN program after completing all of the nursing prerequisites, which may be met by courses completed in the initial degree. Only students who commit to attending full time will be admitted to the Fast Track program. It is assumed that students in this track, as second-degree students, will be able to focus exclusively on the nursing curriculum. No part-time students will be allowed into the program.

***Advanced Credit Standing is given for completion of University Core and Pre-professional courses or equivalencies in a baccalaureate degree within the past seven years up to 58 credits.**

The University of Texas at El Paso School of Nursing Baccalaureate of Science in Nursing Degree Plan

University Core Requirements (44 semester credit hours). All courses used to satisfy the core curriculum must be completed with a 'C' or better.

Hours Course Number and Title

- | | | | |
|---|-------|------|--|
| 4 | *BIOL | 1305 | The Study of Life with BIOL 1107 Lab |
| 4 | *BIOL | 2311 | Human Anatomy/Physiology I with BIOL 2111 Lab |
| 3 | *ENGL | 1311 | Expository English Composition |
| | | | or ESOL 1311 Expository English Composition Speakers of ESL |
| | | | or ENGL/COMM 1611 Written and Oral Communication |
| 3 | *ENGL | 1312 | Research and Critical Writing |
| | | | or ENGL 1313 Writing and Literature |
| | | | or ESOL 1312 Research and Critical Writing for Speakers of ESL |
| 3 | *COMM | 1301 | Public Speaking |
| | | | or COMM 1302 Business and Professional Communication |
| | | | or COMMENGL 1611 Written and Oral Communication |

- 3 *MATH 1320 Mathematics for Social Sciences
or higher level Math course
- 3 Humanities Menu (Select one 3 hour course)
 - a. ENGL 2311 English Literature
 - b. ENGL 2312 English Literature
 - c. ENGL 2313 Introduction to American Fiction
 - d. ENGL 2314 Introduction to American Drama
 - e. ENGL 2318 Introduction to American Poetry
 - f. HIST 2301 World History to 1500
 - g. HIST 2302 World History since 1500
 - h. PHIL 1301 Introduction to Philosophy
 - i. PHIL 2306 Ethics
- 3 Visual and Performing Arts Menu (Select 3 hours)
 - a. ART 1300 Art Appreciation
 - b. ARTH 1305 Art History of the Western World I
 - c. ARTH 1306 Art History of the Western World II
 - d. MUSL 1321 Introduction to Music History
 - e. MUSL 1324 Music Appreciation
 - f. MUSL 1327 Jazz to Rock
 - f. THEA 1313 Introduction to Theatre
 - g. FILM 1390 Introduction to the Art of the Motion Picture
- 3 *HIST 1301 History of U.S. to 1865
- 3 *HIST 1302 History of U.S. since 1865
- 3 *POLS 2310 Introduction to Politics
- 3 POLS 2311 American Government and Politics
- 3 *PSYC 1301 Introduction to Psychology
- 3 *UNIV 1301 Seminar in Critical Inquiry
or UNIV 2350 Interdisciplinary Technology and Society

44 hours

Pre-Professional Courses (14 semester credit hours)

- 4 *BIOL 2313 Human Anatomy/Physiology II with BIOL 2113 Lab
- 4 *CHEM 1407 Introductory Chemistry
or CHEM 1305 General Chemistry I with CHEM 1105 Lab
- 3 *MCR 2330 Microorganisms and Disease
or CLSC ____ Microbiology for Health Professions
- 3 *HSCI 2302 Nutrition

14 hours

NURS Professional Courses (59 semester credit hours)

- 4 NURS 3401 Introductory Health Assessment
- 4 NURS 3402 Pathophysiology
- 3 NURS 3307 Pharmacodynamics
- 3 NURS 3303 Foundations of Nursing Practice
- 6 NURS 3604 Nursing Care of the Individual
- 3 NURS 3314 Nursing Research and Statistics
- 6 NURS 3608 Family Development Stressors
- 6 NURS 3609 Family Situational Stressors
- 3 NURS 4307 Nurse as a Coordinator of Care
- 3 NURS 4313 Nursing/Psychiatric Illness
- 6 NURS 4614 Nurse/Provider of Care
- 6 NURS 4611 Promoting Health Along the Border
- 6 NURS 4612 Acute Care Practicum

59 hours

4th Semester

| | | | |
|-----------------|------|-------|-------------------------------------|
| 4 | NURS | 3401 | Introductory Health Assessment |
| 4 | NURS | 3402 | Pathophysiology |
| 3 | NURS | 3307 | Pharmacodynamics |
| 3 | POLS | 2311 | American Government II |
| <u>3</u> | ART | _____ | Core Curriculum Menu |
| 17 hours | | | (also includes ARTH, THEA, MJSC) |

5th Semester

| | | | |
|-----------------|-----------|------|------------------------------------|
| 3 | NURS | 3303 | Foundations of Nursing Practice |
| 6 | NURS | 3604 | Nursing Care of the Individual |
| 3 | Core Menu | | Humanities |
| <u>3</u> | NURS | 3314 | Nursing Research and Statistics |
| 15 hours | | | |

6th Semester

| | | | |
|-----------------|------|-------|-----------------------------------|
| 6 | NURS | 3608 | Family Developmental Stressors |
| 6 | NURS | 3609 | Family Situational Stressors |
| <u>3</u> | NURS | _____ | Nursing Elective |
| 15 hours | | | |

7th Semester

| | | | |
|-----------------|------|------|-----------------------------------|
| 3 | NURS | 4307 | Nurse as a Coordinator of Care |
| 3 | NURS | 4313 | Nursing/Psychiatric Illness |
| <u>6</u> | NURS | 4614 | Nurse/Provider of Care |
| 12 hours | | | |

8th Semester

| | | | |
|-----------------|------|------|--------------------------------------|
| 6 | NURS | 4611 | Promoting Health Along the Border |
| <u>6</u> | NURS | 4612 | Acute Care Practicum |
| 12 hours | | | |

RN to BSN OPTION: Contact Jose Blanco, jblanco@utep.edu, 747-8237

The University of Texas at El Paso School of Nursing offers a flexible, affordable educational opportunity to registered nurses to continue their professional development. RN student applicants are required to complete the Texas core requirements and may receive advanced placement credit. The online RN to BSN degree plan includes five (5) required nursing courses for registered nurse students to complete the Bachelor of Science in Nursing (BSN) degree. The Admissions Office provides specific information about transfer and course requirements.

The RN to BSN option was developed in concert with regional Associate Degree in Nursing (ADN) programs and is approved by the Board of Nursing for the State of Texas (BON) and the American Association of Colleges of Nursing (AACN). Students may qualify for admission into the RN-BSN program based on the following criteria:

- Graduate of an accredited diploma or associate degree nursing program
- Minimum overall GPA of 2.0
- Current licensure as a registered nurse
- Documentation of health clearances
- Submission of a completed admission application to the University of Texas at El Paso

The RN to BSN program builds upon previous nursing knowledge and experience. It eliminates duplication of content and clinical practice experience achieved by the experienced registered nurse. Specific "RN-only" courses have been designed to enhance the educational experience gained in an associate nursing degree. These courses,

designed for the registered nurse, will assist the transition into the professional role of nursing.

RN to BSN Professional courses include:

- NURR 3314 Nursing Research and Statistics
- NURR 4300 Contemporary Professional Nursing
- NURR 4500 Community Health Nursing
- NURR 4401 Issues & Problems – Leadership and Management
- NURR 4501 Multidisciplinary Health Care

Degree Requirements for a Bachelor of Science in Nursing

(RN to BSN Option) – A minimum of 30 credit hours must be completed at UTEP or through UT Telecampus

| | |
|---|---------------------------------|
| University Core Requirements | 44 semester credit hours |
| Pre-Professional Courses | 14 semester credit hours |
| Advanced Standing Professional Credits* | 32 semester credit hours |
| NURS Professional Courses | 20 semester credit hours |
| <u>Electives</u> | <u>10 semester credit hours</u> |
| Total | 120 semester credit hours |

General Information for Nursing Students

Student Affairs

It is the responsibility of the student:

1. To become familiar with and comply with regulations of the School of Nursing and the College of Health Sciences;
2. To keep the School of Nursing Office and the Admissions Office informed of his or her current (1) local address, (2) telephone number, or where he or she may be reached, and (3) permanent address and phone number;
3. To be informed of general and special notices including examination schedules posted on the official bulletin board in the College;
4. To be flexible in personal scheduling to accommodate course didactic and clinical assignment changes from published days and times;
5. To make arrangements for completion of all work and to meet the requirements for removal of incomplete grades; and
6. To assure that official communications, including requests for release of information to other institutions, be submitted in writing.

Special Expenses

- NET (Nurse Entrance Test)
- Required dress for clinical practicum (Uniforms, lab coat, name pin, and identification patch).
- Ongoing assessment and testing in preparation for registered nurse licensure examination.
- Health and Clinical Clearances
- Background Checks (Declaratory Order, if applicable)

This list is not inclusive and is subject to change.

Student Employment

The School of Nursing assumes no responsibility for students employed in a health care agency. A student is personally responsible and liable for any activities conducted while employed. Professional liability insurance purchased by a student is valid in the student role, but not in the employment role (check individual policy). An individual who practices nursing illegally may jeopardize his/her future as a licensed professional. A student employed in an agency has the responsibility, personally and professionally, to engage in only those activities which fall within the job description for non-professional workers, and has a responsibility to refuse to participate in activities which he or she has not been legally licensed to perform.

Nursing Student Organization

All enrolled students are eligible for membership in the Nursing Student Organization, an affiliate of the Texas Nursing Students' Association and the National Student Nurses' Association. The UTEP Chapter has goals consistent with those of the National Student Nurses' Association. Its purpose is to aid in the development of the individual student, the profession of Nursing and the delivery of health care.

Sigma Theta Tau

Delta Kappa Chapter of Sigma Theta Tau was chartered at The University of Texas at El Paso in 1980. The purposes of Sigma Theta Tau are to recognize the achievement of scholarship of superior quality, to recognize the development of leadership qualities, to foster high professional standards, to encourage creative work, and to strengthen commitment on the part of individuals to the ideals and purposes of the profession of nursing. Each year invitations to membership are extended to selected students in either the undergraduate or graduate programs who are within the upper one-third of their graduating class and who have a minimum 3.00 GPA.

Financial Aid

Students enrolled in the School of Nursing are eligible to apply for all forms of financial assistance available to other majors. Specific information can be obtained from the Financial Aid Office at <http://academics.utep.edu/Default.aspx?alias=academics.utep.edu/finaid>.

Armed Services

The United States Armed Services view the Reserve Officers Training Corps (ROTC) as an exceptionally valuable source for officers who have an appreciation of nursing's contribution to the defense of the nation. ROTC offers programs whereby nursing students may earn a commission while they complete their nursing curriculum. Scholarships that provide for tuition, books, and supplies are available. Monthly stipends are offered to advanced students. In addition to financial assistance, ROTC offers leadership/management courses which are valuable assets in a nursing career. A six-week summer training program provides valuable experience for students in health care facilities between the academic

years. Interested students should contact the Department of Military Science or the Department of Aerospace Studies on campus.

Admission and Pre-Nursing Advising

Students seeking admission to the University as freshmen or transfers should consult the Undergraduate Admission section in this Catalog. Students transferring from other nursing programs must submit to the School of Nursing Dean, a statement from the dean or department chair of the previous program stating that the student is eligible to return to that program. Students are classified as pre-nursing majors until they are admitted into the nursing program.

Applicants to the School of Nursing must be accepted to the University and official transcripts must be evaluated by the University prior to consideration for admission.

- All University Core and program prerequisite courses must be passed with a "C" or better
- University policy states that courses may not be repeated in which a student earned a grade of "C" or better
- The minimum cumulative GPA (at UTEP) to apply is 2.0
- The minimum prerequisite GPA to apply is 2.5. Historically, the minimum competitive prerequisite GPA is 3.0
- The minimum Science GPA to apply is 2.5. Historically, the minimum competitive Science GPA is 3.0.
- All Science courses must be current and completed within four (4) years prior to eligibility to apply for the Nursing Program.
- Selections are based on the cumulative GPA, Prerequisite GPA, Science GPA, and Nursing Entrance Test (NET) scores.
- Additional information can be found at <https://academics.utep.edu/Default.aspx?tabid=12719>

Clinical Requirements

Students accepted into the nursing major and upper division nursing courses or the Graduate Nursing Program must have in their record proofs of health clearance and other requirements for the practicum component of clinical courses.

Note: Failure to comply with these requirements will result in students having holds placed on registration or being dropped from courses.

1. Health Clearance: Includes physical exam, lab work and immunizations.

- Up to date health clearance must be documented prior to enrolling in any Nursing classes.
- For ongoing students the physical exam, immunizations, and lab work may be done at SHC at reduced rates; check for the fee schedule (747-5624). Students who have had their physical exam, lab work and/or immunizations done by a private physician or through their employers may submit copies to the Student Health Center for review and clearance. The physical examination should be comprehensive and include appropriate age and gender specific screening tests. The name and address of the Health Care Professional who completed the exam should be printed clearly or typed on whatever form is presented.
- Physical Exam
- Immunizations/Tests:
 1. Tetanus/Diphtheria/Pertussis (Tdap)- within 10 years
 2. MMR (Measles, Mumps, Rubella) Vaccine (at least one dose since 1980 if born after 1956)
 3. Titers Documenting Immunity to:
 - Hepatitis B
 - Rubella
 - Rubella (Measles)
 - Varicella
 4. If needed, based on titer, the following must be completed with a follow up titer documenting immunity:
 - Booster MMR
 - Varicella series
 - Hepatitis series
 5. CBC
 6. Urinalysis
 7. Tuberculosis Screening: PPD yearly (or biannually as required for clinical clearance). For positive PPD or BCG received in the past, the policy of the Center for Disease Control will be followed, which includes a yearly (or biannually as required) TB questionnaire, exam by a Health Care Provider, and, chest x-ray every 5 years, or as indicated.
- **Note: The Student Health Center (SHC) is the only repository for health clearance information.**
- Clearances must be valid through the entire semester for which the student is registering and must be on file 10-14 days PRIOR to the start of the semester. (See Compliance Web Page for deadline dates). Students who are newly admitted and are to register for the first time should take documentation of the health items directly to the **Student Health Center**. The SHC will create a file for them so that they may have permission to register and pay fees. No other services may be provided until the student has paid appropriate SHC fees at the time of registration.

2. Clinical Clearance: The following items are required to be turned into the Compliance Office in the Student Support Center.

- **Cardio Pulmonary Resuscitation (CPR)** certification is required and must be current as indicated by the certifying body. The certification is required and must be current until the end of the semester for which the student is registering. It must be American Heart Association Healthcare Provider or its recognized equivalent. **Students must submit a copy of both sides of the CPR card.** If the CPR expires during a semester, students must renew immediately to avoid being dropped from clinical courses.
- **Professional liability insurance** must be purchased annually during Fall registration. Students beginning in the Spring or Summer semesters must purchase prorated liability insurance. All upper division students enrolling in nursing courses will be required to show evidence of professional liability insurance coverage of at least a minimum amount of \$1,000,000 limit each claim and \$3,000,000 limit aggregate.
- All students are encouraged to maintain an acceptable **health insurance** policy since students are responsible for their own health care costs. A Student Accident and Sickness Insurance Plan is available upon request through the Dean of Students' Office, 102 W. Union.
- **Community-Wide Orientation:** All nursing students must complete the on-line City-Wide Orientation once each year. The on-line Community-Wide Orientation is at <http://www.epcc.edu/nursing/cwo/OI.php>. Certificate of completion must be submitted to the Compliance Office in the Student Support Center.

3. Background Check

- Students accepted to the School of Nursing are required to pass a **background check** prior to matriculation. This is required by the area agencies in which clinical rotations take place and is also a licensure requirement by the Texas Board of Nurse Examiners. Application forms are available through the College of Health Sciences student Support Office.

4. Drug Screening

- Students accepted to the School of Nursing are required to pass a drug screen prior to matriculation. This is required by the area agencies in which clinical rotations take place. Application forms are available through the college of Health Sciences Student Support Office.

Academic Progress

A nursing student must meet or exceed the following minimum requirements for each course in the Nursing curriculum in order to pass that course:

1. Course grade must be equal to or greater than 75.0. The grading scale is 90-100 = A, 80-89 = B, 75-79 = C, 65-74 = D and Below 65=F.
2. Pass both the didactic and the clinical components of a course. Failure in either component results in a failing grade for the entire course regardless of the specific grades received.

received.

3. Score at or above the minimum level [as decided by Nursing] on any national/standardized comprehensive exams associated with a course.

Rigorous study is required to succeed in the Nursing Program. Multiple hours of preparation are required beyond the classroom periods and clinical experiences. Students must be willing to accept this as a condition of succeeding in the program.

Course Repeat Policy

Repeating a nursing course due to failure or withdrawal is not automatic. The student must request permission from Undergraduate Nursing Administration to repeat a course by using the designated form found at <https://academics.utep.edu/Portals/297/Repeat%20course%20form.doc>. The decision to give permission to retake is based on the following:

1. Space availability
2. Nursing GPA
3. Previous failures
4. Previous withdrawals
5. Course faculty recommendation (which takes into consideration attendance, following remediation plans within the course, etc.)

Progression

Students must successfully complete all prerequisite courses to progress through the curriculum sequence. Repeating a course disrupts the normal timeline of progression. **Successful completion of a failed course does not guarantee automatic progression into succeeding courses.** Students who vary from the normal timeline are placed in subsequent courses on a space available basis each semester.

Course Withdrawal and Failure

In accordance with University policy, a Nursing course may only be attempted twice. A withdrawal from a course that results in a "W" counts as an attempt. Students are not encouraged to withdraw from nursing courses as this impedes progress in the completion of the degree plan, but if a student chooses to withdraw from a course, this should be in writing (See Student Handbook). A School of Nursing student may repeat or withdraw from a nursing course only once. Recommendation of the faculty, the student's written request, space availability and approval by the Assistant Dean for Undergraduate Education are needed to retake courses. Failure to successfully complete a Nursing course in two attempts results in dismissal from the School of Nursing. In addition to the two attempt limit, **any two failing grades** in the Nursing curriculum and/or a faculty recommendation to not allow a student to repeat a course results in dismissal from the School of Nursing.

Safe and Effective Nursing Practice Policy

All nursing students must perform within the limits of safe practice. A faculty member may drop a student from a course with an "F" (regardless of grades received) if the student's nursing practice is deemed to be unsafe as defined in the Safe Practice Policy of the School of Nursing, a copy is posted on the Official Bulletin Board in the School of Nursing.

Retention/ Conferences

Retention in the major is taken seriously. A retention action plan (RAP) is in place in the SON. Faculty and/or students may initiate the process. A retention action plan will help determine areas of difficulty and recommendations for the student to apply to improve potential success.

Students are advised to discuss academic progress and/or situations first with the immediate faculty member, then with the faculty member with overall responsibility for the specific course (the course manager).

Faculty members are available to confer with students outside of class according to posted office hours. The Director of the School of Nursing and the Undergraduate Program Director are prepared to confer with students as needed. Student Support staff are also available for referrals to appropriate UTEP student services.

Graduation Requirements

1. To be eligible for graduation, a student must have attained a minimum 2.0 Cumulative Grade Point Average (CGPA) in the baccalaureate degree plan and a minimum Grade Point Average (GPA) of 2.0 in the Nursing Major.
2. A candidate must successfully complete the prescribed curriculum and must meet all other requirements of the University, College, and School.

Testing Program

In order to assist faculty with academic advisement of students, and to provide a means of ongoing evaluation of the School of Nursing curriculum, nursing students are required to participate in a testing and evaluation program in addition to course examinations. Students are required to successfully complete the RN Assessment Examination as part of the NURS 4612 course requirements (see NURS 4612 syllabus for further details).

Licensure as a Professional Nurse

Graduates seeking licensure must successfully complete the National Council of State Boards of Nursing-Registered Nurse Examination (NCLEX-RN) which is administered by the Board of Nurse Examiners (BNE) for the State of Texas. BSN graduates must complete the BSN licensure application which includes criminal background check information. The SON Director will verify the eligibility status of applicants.

All students are required to read and sign the Licensure Eligibility Notification Form prior to being admitted into the clinical courses. (Usually completed during the 4th semester).

Students who have a reason to believe that they may be ineligible for licensure may petition the Board of Nurse Examiners for a Declaratory Order as to eligibility. The Declaratory Order Request form can be downloaded from the BNE web site. The website to review current rules and regulations is: www.bne.state.tx.us.

Nursing (NURS)

Note: The number in parentheses following the course title indicates the average number of contact hours per week. The first digit refers to the number of hours in a didactic/class setting, the second digit refers to the number of hours in an on-campus or off campus laboratory setting, and the third digit refers to the number of hours in an off-campus clinical practicum experience. Personal travel arrangements are required to participate in clinical and laboratory experiences. These experiences are at a variety of locations in the El Paso

region.

3180 Selected Topics in Nursing (1-0-0)

3380 Selected Topics in Nursing (3-0-0)

Selected topics of current interest. May be repeated when topic varies.

3303 Foundations of Nursing Practice (3-0-0)

Focus on principles, theories, historical background, current trends and concepts related to nursing practice with special emphasis on growth and development throughout the life span, therapeutic communication and the principles of teaching and learning. *Prerequisites:* NURS 3307, NURS 3401, and NURS 3402, each with a grade of "C" or better. Laboratory and Nursing Major fee required.

3307 Pharmacodynamics and Nursing Implications (3-0-0)

This course emphasizes knowledge of pharmacology that includes the pharmaceutical phase, pharmacokinetics, and pharmaco-dynamics. Implications for nursing related to the administration of medications is incorporated. *Prerequisites:* Admission into the upper-division Nursing Program, NURS 3401 and NURS 3402 each with a grade of "C" or better and department approval. NURS 3401 and NURS 3402 may be taken concurrently with NURS 3307. Nursing major fee required.

3314 Nursing Research and Statistics (3-0-0)

Focus on basic concepts and process of research and statistics. *Prerequisite:* Admission to the upper-division Nursing Program and/or department approval. Nursing major fee required.

3315 Independent Study (0-0-3)

Variable credit hour(s) of independent study. *Prerequisite:* Department approval.

3318 Nursing and the Aging Client (3-0-0)

This course provides an opportunity to gain increased knowledge and skill in the management of the health and nursing care of the elderly. The focus is on a holistic approach to aging processes as a basis for nursing practice.

Prerequisite: Junior standing or department approval.

3319 Cultural Perspectives on Health Care (3-0-0)

This course builds upon concepts and issues related to culture and health. Major focus is on values and attitudes about caring, health, illness, and treatment as related to diverse cultural groups. *Prerequisite:* Department approval.

3330 Contemporary Perspectives on Death and Dying (3-0-0)

The design of this course is to focus on personal feelings about one's own death and the death of others. The reactions and responses of dying, death, and bereavement across the age continuum in various cultures are explored. Alternative concepts of care and an interdisciplinary approach are utilized.

3401 Introductory Health Assessment (3-3)

This course introduces students to concepts, rationale and systematic procedures that will facilitate obtaining valid data when performing bio-psycho-social health assessments. Concepts are addressed in a life span approach and there is a practicum in the college laboratory. *Prerequisites:* Admission to the upper-division Nursing Program, NURS 3307 and NURS 3402 each with a grade of "C" or better. NURS 3307 and NURS 3402 may be taken concurrently with NURS 3401. Nursing major fee required.

3402 Human Adaptation to Pathophysiology (4-0-0)

Major emphasis of this course is on the study of pathophysiological processes and their impact on the body systems, with special attention to disease or trauma-induced alteration of regulatory mechanisms within the human organism. *Prerequisite:* Admission to the upper-division Nursing Program, NURS 3307 and NURS 3401 each with a grade of "C" or better. NURS 3307 and NURS 3401 may be taken concurrently with NURS 3402. Nursing major fee required.

3604 Nursing Care of the Individual (3-9-0)

Focus on the clinical application of previously learned scientific knowledge and clinical foundations skills associated with caring for individuals experiencing non life-threatening illness or injury. *Prerequisites:* NURS 3307, NURS 3401 and NURS 3402, each with a grade of "C" or better. Nursing major fee required.

3605 Nursing Care of Clients Adapting to Perioperative Stressors (3-6-0)

This course provides an opportunity to gain further knowledge and skill in the nursing care of clients who require surgical intervention. Focus is on the complete perioperative cycle of care. Clinical practicum is provided in pre-operative care and health teaching, participant/observer during the intraoperative phase, and post-operative care. *Prerequisite:* Department approval. Laboratory and Nursing major fee required.

3606 Health Promotion in Rural Environments (3-6-0)

This course explores health care problems of individuals, families, groups, and communities. Clinical practicum focuses on methods for promotion, protection, maintenance, and restoration of health in rural settings. *Prerequisite:* Department approval. *Prerequisite:* Department approval Laboratory fee and Nursing major fee required

3608 Family Development Stressors (3-9-0)

Focus on normal stressors and commonly experienced illness, injury or mental health alterations throughout the family life cycle. *Prerequisites:* NURS 3303, and NURS 3604 each with a grade of "C" or better. NURS 3609 may be taken concurrently with NURS 3608. Nursing major fee required.

3609 Family Situational Stressors (3-9-0)

Focus on nursing care of clients experiencing situational and long-term stressors. Content will address biological, physiological and psychosocial elements. *Prerequisites:* NURS 3303, and NURS 3604, each with a grade of "C" or better. NURS 3608 may be taken concurrently with NURS 3609. Nursing major fee required.

4300 Contemporary Professional Nursing (3-0)

The focus of this course is the study of professional nursing with emphasis on the changing role of the nurse in a contemporary society and in health care delivery. The impact of health legislation, accountability, ethical decision-making, and the use of research process are studied. RN's in the RN-BSN or RN-MSN programs only. *Prerequisite:* Department approval.

4307 Nurse as a Coordinator of Care (3-0-0)

Focus on the professional nurse(s) role as coordinator of care in a complex health care environment. *Prerequisites:* NURS 3608 and NURS 3609, each with a grade of "C" or better and/or department approval. Nursing major fee required.

4313 Nursing Care of Persons with Psychiatric Illness (2-3-0)

Examination of human responses to psychiatric illness in relation to physiological, psychological, social, cultural and environmental concepts. Includes application of the nursing process to improve health outcomes in caring for persons with psychiatric illness. *Prerequisites:* NURS 3608 and NURS 3609 each with a grade of "C" or better and/or department approval.

4401 Issues and Problems in Leadership and Management (4-0-0)

The course focuses on analysis of health care costs, budgeting problems, quality assurance, and comprehensive nursing/health care. RN's in the RN-BSN or RN-MSN programs only. *Prerequisites:* Department approval.

4500 Community Health Nursing (4-1)

Focus on application of the nursing process to promote wellness and manage occurrence of health care needs of individual families and community. Includes practicum. RN's in the RN-BSN or RN-MSN programs only.

4501 Multidisciplinary Health Care (4-1)

Focus on primary health care with emphasis on multidisciplinary approach to individuals, families, and community problems. Planning for management of varied health problems within the community is emphasized. RN's in the RN-BSN or RN-MSN program only. Includes practicum. *Prerequisite:* Department approval.

4611 Promoting Health Along the Border (3-9-0)

Focus on principles and practices of public health as applicable to community health concerns of aggregate populations along the US/Mexico border. *Prerequisite:* Completion of all other BSN degree requirements. NURS 4611 may be taken concurrently with NURS 4612. Nursing major fee required.

4612 Acute Care Practicum (2-12-0)

This course is a culminating experience in which the student applies theory to clinical practice. The student will plan, manage, coordinate and provide nursing care for a group of clients in the acute care setting, demonstrating the Board of Nurse Examiners (BNE) entry level competencies. *Prerequisite:* Completion of all other BSN degree requirements. NURS 4612 may be taken concurrently with NURS 4611. Nursing major fee required.

4614 Nurse as Provider of Care in Crisis Events (3-9-0)

Focus on nursing care of individuals/families experiencing multiple system health crises. *Prerequisites:* NURS 3608 and NURS 3609 each with a grade of "C" or better.

See the *Undergraduate Nursing Student Handbook* for other requirements.

See the *Graduate Catalog* for graduate programs and courses.



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University College

[Bachelor of Multidisciplinary Studies](#)

[University Studies](#)





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Bachelor of Multidisciplinary Studies

University College, Dean's Office
218 Academic Services Building
(915) 747-5151

The Bachelor of Multidisciplinary Studies (BMS) degree offers students a broad interdisciplinary studies opportunity rather than a traditional specialized major. As an individualized program of study, the BMS emphasizes a broad learning experience and a wider perspective than that provided by traditional undergraduate majors. Students focus on an interdisciplinary theme, period, set of problems, specialization, or perspective not currently available through traditional majors and minors.

The BMS degree encourages students to select courses from the entire university course inventory, tailoring their study to their own personal and professional interests and needs. The degree provides students with a fundamental knowledge of skills necessary to competently express themselves, think creatively, solve problems, and understand the nature and function of people and the environment.

The interdisciplinary degree plans developed by students and their advisors are reviewed by a program review committee composed of academic faculty and a University College representative.

Admissions Requirements

- New, transfer, and returning students may declare their intention to work toward a BMS degree if they meet UTEP's admission requirements.
- All students admitted into the BMS program are required to meet regularly with a BMS advisor to select their concentrations and electives.

Bachelor of Multidisciplinary Studies Degree Requirements

The Bachelor of Multidisciplinary Studies degree requires a minimum of 120 semester hours, including at least 45 hours at the advanced/upper division (junior and senior) level. In addition to completing the 42 semester hour University core curriculum, each student defines, in consultation with a BMS advisor, three areas of concentration totaling 45 semester hours, including a minimum of 27 hours of advanced work. Each area of concentration includes 15 hours, 9 hours of which must be advanced. The goal of the concentration is to give students an interdisciplinary foundation that satisfies individual educational and professional goals while maintaining academic rigor and integrity. The academic areas comprising the concentrations require the approval of the faculty program review committee. Thirty-three hours of electives, 18 of which must be advanced, bring the degree total to a minimum 120 semester hours.

| Requirement | Semester Hours |
|---|-----------------------------------|
| Core Curriculum | 42 |
| <i>(see under University Core Curriculum of this catalog)</i> | |
| Communication | 9 |
| Mathematics | 3 |
| Natural Sciences | 6-8 |
| Humanities | 3 |
| Visual and Performing Arts | 3 |
| United States History | 6 |
| Political Science | 6 |
| Social and Behavioral Science | 3 |
| Institutionally Designated Option | 3 |
| Total | 42 |
| Concentration I | 15 (including 9 advanced) |
| Concentration II | 15 (including 9 advanced) |
| Concentration III | 15 (including 9 advanced) |
| Electives | 33 (including 18 advanced) |
| TOTAL | 120 |

In addition to completing organized courses, we recommend that students complete a capstone experience that integrates the multidisciplinary coursework: a course with a service learning component, a professional internship experience related to their concentration, or an independent research project. This involvement combines academic classroom-based activities with practical and/or research experience.

Text/HTML

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University Studies

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University Studies offers two Core Curriculum courses--University 1301 and University 2350. To provide additional support for entering students, University Studies also coordinates learning communities.

UNIVERSITY COURSES

University 1301 and University 2350 are courses taught by faculty and staff from various departments across campus. University 1301: Seminar in Critical Inquiry is a discipline-based, theme-driven course designed to engage students in the University community. Enrollment in University 1301 is restricted to students with fewer than thirty hours of earned credit the semester in which they are taking the course. University 2350: Interdisciplinary Technology and Society is designed to engage students in a critical examination of technology and its effects. Entering students must take either University 1301 or University 2350 to satisfy Block IX of the Core Curriculum. By successfully completing either of these courses, students gain credit toward graduation. The course descriptions identify the innovative nature of the two courses.

University Courses (UNIV)

1301 Seminar in Critical Inquiry

This course will engage entering students in critical inquiry concerning one or more related academic topics. The seminar will increase students' knowledge of the role of technology in the academic community. Information acquisition, critical thinking, and communication will be integrated in an active learning environment. Students will conduct library and electronic research to support one or more academic projects. Specific topics may vary with instructor.

2350 Interdisciplinary Technology and Society

Students in this course will be introduced to approaches to technology assessment and will examine social, cultural, and environmental consequences of technology. The course will include problem solving in small groups assigned to research, analyze, discuss, and arrive at possible solutions for a broad range of topics related to technology and society. Specific topics may vary with instructor. Strategies for effective uses of electronic technology in support of research are emphasized. Prerequisite: ENGL 1312 or ENGL 1313 or ESOL 1312.

UNIVERSITY LEARNING COMMUNITIES

University Studies also coordinates learning communities for entering students. Learning communities connect students through linked courses. Students enrolled in learning communities attend two, three, or more courses together; for example, a "community" of students might be enrolled together in an English and a history class. Sharing courses in this way increases students' opportunities to make friends, form study groups, work closely with faculty, and connect ideas across courses. Look in the class schedule for a list of learning communities offered each semester.

